(1) Number of pages 2/2

(2) Date of repair 11.3.88

(3) Initials of the Referencer bvn

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W. DEPARTMENT

G.O. No. 535- W
~~B.P. No.~~ ~~Press.~~ ~~Mis.~~

Dated 24.2.1887 ~~19~~ .

Bdn. 4

to be folded or roughly handled

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535/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following papers :—

From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Cochin, 29th January 1887, No. 37 E.W.

With reference to paragraph 3 of G.O., No. 2992 W., of 13th instant, I have the honor to inform you that a supplemental estimate, amounting to Rs. 4,400, for the additional works required by the Commissariat Department at the Wellington bakery was forwarded on 21st instant to the Commissary-General for transmission to Government for sanction.

2. The Executive Engineer, Nílgiri division, informs * me that he anticipates a saving of about Rs. 2,000 on the estimate of Rs. 31,450 sanctioned for the bakery in G.O., No. 1528 W., of 17th June 1886, so that the cost of the extra works now proposed to the bakery may be met in part from those savings, and a grant of the balance, Rs. 2,400, only will be needed. Application will be made for an additional grant, if necessary, after a further reference to the Executive Engineer who has not yet reported what he expects his expenditure will be.

* *Vide* copy of letter, No. 2991, of 7th January 1887.

Enclosure.

From W. B. DeWINTON, Esq., Executive Engineer, Nílgiri Division, to the Superintending Engineer, IV Circle, dated Ootacamund, 17th January 1887, No. 2991.

In reply to your No. 788 N.I., of 18th December 1886, I have the honor to forward a comparative statement showing the total amount of savings anticipated in the Wellington bakery and latrine. These amount, as you perceive, to Rs. 2,066, or say Rs. 2,000.

2. The principal savings are in "brick in mortar," due to the walls being built throughout 1 foot 1½ inches instead of 1 foot 2 inches thick; in "rough stone in mortar," due to rough stone laid dry being substituted in revetments and culverts; and in "petty supervision," which needs no explanation.

3. * * * * *

From Colonel H. P. HAWKES, Commissary-General, to the Secretary to Government, Military Department, dated Madras, 4th February 1887, No. 8287.

Adverting to Proceedings of Government, No. 7171, dated 16th November 1886, I have the honor to forward, for submission to Government, a supplemental estimate received from the Superintending Engineer, IV Circle, amounting to Rs. 4,400, for the completion of the Government bakery at Wellington, together with a report and duplicate abstract of the estimate.

2. This estimate provides for remedying all the defects pointed out in my letter, No. 5558, dated 20th October 1886.

3. The total cost, including these extra works, is now estimated at Rs. 35,850.

No. 766, Military.

Approved and transferred to the Public Works Department for disposal, with reference to Proceedings of Government, No. 2992 W., dated 13th November 1886.

(By Order.)

Fort St. George,
7th February 1887.

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Secretary to Government.

Order—dated 24th February 1887, No. 535 W., Public Works.

The estimate, amounting to Rs. 4,400, for completing the Government bakery at Wellington, is sanctioned as supplemental to the estimate of Rs. 31,450 sanctioned in G.O., No. 1528 W., dated 17th June 1886.

2. This sanction has been registered as Imperial, No. 36 W. of 1886-87, and classified as Military, Original Works.

(True Extract.)

Captain, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with three enclosures.
" Examiner, Public Works Accounts, with the duplicate abstract estimate.
" Military Department.

Exd. P. L. Pereira.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated February, 24th.

Recd. *Encl.*

G.O., 24th Feb. 1887, No. 535 W.

FEBRUARY.

Government Bakery at Wellington

Estimate of Rs. 4,400 for completing the —, sanctioned.

535
3

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers :—

From Colonel J. BEATTY, R.E., Superintending Engineer, Fourth Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 9th July 1883, No. 278.

In reply to your memorandum, No. 200 E., of 6th instant, I have the honor to report that the plans and estimate for the bakery at Cannanore were submitted with this office letter, No. 268, of 26th ultimo, and that the plans and estimate of the bakery for Wellington are under preparation in the Executive Engineer's Office, Nilgiris. The latter have been delayed while the Draftsmen were engaged on the complete estimate of Government House, but they will doubtless now be ready in the course of a week or ten days.

P.S.—At Cannanore, according to the instructions of the Commissariat Department, every thing is to be done by hand-power; but from a letter just received from the Executive Engineer, Nilgiri Division, it appears that, in order to estimate with tolerable accuracy the cost of the buildings and machinery required at Wellington, it will be necessary to communicate with a firm of millwrights in England; if, however, an approximate estimate will do, one can be submitted in the course of ten days.

No. 219 E., Public Works.

The estimate for the Wellington Bakery should be framed on such data as may be available, approximate amounts being entered where exact prices are not known.

OOTACAMUND,
13th July 1883.

(Signed) R. H. SANKEY, Colonel, R.E.,
Chief Engineer, P.W.D.

To the Superintending Engineer, Fourth Circle.

From Colonel J. BEATTY, R.E., Superintending Engineer, Fourth Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 20th July 1883, No. 294 E.W.

With reference to your memorandum, No. 219 E., dated Ootacamund, 13th instant, I have the honor to forward you, herewith, the approximate estimate, amounting to Rs. 65,000, for constructing a bakery at Wellington. The causes which have delayed the preparation of a detailed estimate are explained in the Executive Engineer's letter which accompanies the approximate estimate.

ENCLOSURE.

From J. C. LARMINIE, Esq., Executive Engineer, Nilgiri Division, to the Superintending Engineer, Fourth Circle, dated Ootacamund, 17th July 1883, No. 167.

In reply to your telegram of the 16th, I have the honor to submit, herewith, an approximate estimate for a bakery at Wellington. I may mention that a detailed estimate is now in hand, but as this will not be ready for some little time to come, I submit the accompanying approximate one.

The great delay which has occurred since His Excellency the Commander-in-Chief first called for the bakery estimate is due, as you are aware, to two causes— *First*, a considerable delay in procuring data in the shape of plans of similar buildings and machinery which have been erected at Kurrachee; and, *second*, to the fact that nearly all my establishment have, for more than the last two months, been employed on the Government House revised plans and estimates.

ORDER—dated 10th August 1883, No. 2211 W., Public Works.

The approximate estimate, amounting to Rs. 65,000, for constructing a bakery at the Wellington Depôt, is sanctioned. The Government of India will be requested to re-allot the budget provision of Rs. 8,000 withdrawn in their letter, No. 542 M.W.,* dated 14th June 1883.

* G.O., No. 1965 W., dated 13th July 1883.

2. This sanction has been registered as Imperial No. 25 of 1883-84 and classified as Original Works, Military.

(Here enter No. 2212 W., dated 10th August 1883.)

(True Extract.)

(Signed) R. H. SANKEY, Major-General, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, Fourth Circle.
" Examiner, Public Works Accounts, with one Estimate.
" Military Department.

ENDORSEMENT—dated 10th August 1883, No. 2212 W., Public Works.

Copy of the above forwarded to the Government of India with reference to endorsement, No. 1965 W., dated 13th July 1883.

(Signed) R. H. SANKEY, Major-General, R.E.,
Secretary to Govt., P.W.D.

Exd. A. F. Goodall.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1883} Madras.

PUBLIC WORKS.

Dated August, 10th.

Recd. *Encl.*

G.O., 10th Aug. 1883, No. 2212 W

AUGUST.

Bakery at Wellington

FORWARDING copy of Proceedings sanctioning the approximate estimate for constructing a —; and requesting re-allotment of the budget provision of Rs. 8,000 withdrawn by the Government of India.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following letter from Colonel G. CHESNEY, Secretary to the Government of India, Military Department, to the Secretary to the Government of Madras, Public Works Department, dated Simla, 29th August 1883, No. 804 M.W. :—

With reference to the Proceedings of the Government of Madras submitted with your endorsement, No. 2212 W., dated 10th August 1883, I am directed to state, for the information of the Governor in Council, that there is no probability of the Government of India ever being able to allot the very large sum of Rs. 65,000 for the construction of a Bakery at Wellington; and I am therefore to request that, under the orders of His Excellency, the project may be reconsidered with a view to reducing the cost within more moderate limits.

2. As under these circumstances there appears little probability of the detailed estimate being sanctioned during the current year, the Government of India will not at present re-allot the amount of Rs. 8,000 for the work which was withdrawn in this department letter, No. 542 M.W., dated 14th June 1883.

Telegram from the Inspector-General of Military Works, Simla, to the Secretary to the Government of Madras, Public Works Department, dated Simla, 18th September 1883.

The type plans for bakeries are not yet complete or definitely settled, would suggest your not delaying work for type plans, which may be long deferred.

ORDER—dated 22nd September 1883, No. 2663 W., Public Works.

Communicated to the Superintending Engineer, Fourth Circle, with reference to G.O., No. 2211 W., dated 10th August 1883, and with a request that the estimate for the Wellington Bakery be reduced to more moderate limits as early as practicable.

2. All that is required is a building sufficiently large and convenient for storing the requisite amount of flour and for baking the required number of loaves daily. For the present no provision need be made for machinery, the details of which will have to be settled in communication with the Commissariat authorities.

3. The modified estimate proposed by the Executive Engineer, which will amount to Rs. 48,560, is considered excessive for the object in view; and is not likely to be accepted by the Government of India.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, Fourth Circle, with one Estimate.
" Examiner, Public Works Accounts.
" Military Department.

Exd. E. Fernandez.

Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Gobt. of {1883} Madras
PUBLIC WORKS.

Dated September, 22nd.

Recd. *Encl.*

G.O., 22nd Sept. 1883, No. 2663 W

SEPTEMBER.

Wellington Bakery

Letter from the Government of India requesting that the cost of the proposed — may be reduced to more moderate limits, communicated, with remarks, to the Superintending Engineer, Fourth Circle.

535/6

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers :—

From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Ootacamund, 30th December 1883, No. 594 W.

I have the honor to submit, herewith, a fresh revised estimate for the Wellington bakery, as directed in G.O., No. 2663 W.,* of 22nd September 1883. The cost of the building has been reduced from Rs. 60,560 to Rs. 26,360 by omitting the machinery, stores, servants' quarters, and provision for unforeseen additions.

3 Plans.
1 Site plan.
3 Estimates.
1 Abstract estimate in duplicate.
1 Report.

* G.O., dated 5th October 1883, No. 5401, Military.

2. The present estimate includes an item of Rs. 13,000 for three ovens, which may be reduced to Rs. 10,000, if two ovens are considered sufficient.

No. 100 C., Public Works.

Submitted for the approval of His Excellency the Commander-in-Chief, and of Government in the Military Department.

(By Order.)
(Signed) C. BOWEN, Major, R.E.,
Deputy Chief Engineer, P.W.D.

15th January 1884.

No. 260, Military.

Referred for the approval of His Excellency the Commander-in-Chief.

FORT ST. GEORGE,
17th January 1884.

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Officiating Secretary to Government.

To the Quartermaster-General, who is requested to pass the papers on for the approval of the Commissary-General, should His Excellency first approve them.

From Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Military Department, dated Fort Saint George, 4th February 1884, No. 683 :—

In returning the plans and estimates, amounting to Rs. 26,360, for a bakery at Wellington, received under reference order, No. 260, dated 17th January 1884, I am desired to say that His Excellency the Commander-in-Chief agrees generally in the opinions expressed by the Commissary-General in his letter † on the subject, enclosed, and considers that it should be possible to provide a bakery, to meet all requirements at Wellington, at a cost considerably less than that contemplated in the estimates in question.

† No. 6484, dated 1st instant.

ENCLOSURE.

From Colonel B. H. W. MAGRATH, Commissary-General, Madras, to the Quartermaster-General, dated Madras, 1st February 1884, No. 6484.

I have the honor to return plans and estimate, for a bakery, received under your docket, No. 779/399, of 23rd January 1884.

2. I would submit, for the consideration of His Excellency the Commander-in-Chief, that the plans are unsuitable and incomplete; they are the same which were sent, for my opinion, on the 5th October, except that the machinery, &c., stores, servants' lines, and "unforeseen addition" have been excluded from the estimate.

3. With water-power close at hand, which could be utilized for both grinding and sifting the wheat as also for kneading the flour, no provision has been made for the erection of a water-wheel.

4. There is no suitable accommodation for storing wheat or cleaning it; none for storing flour and soojee, and none for storing firewood.

5. The bakery should be all under one roof and should have only one door leading into it.

6. Again, if no machinery of any kind is to be used, the upper-story would add much to the labor of preparing flour without any corresponding advantage.

7. The boiler-room and engine-room, which the Executive Engineer suggests retaining, are too small to be of any practical use if only manual labor is employed.

8. The ovens are too large. 12 feet by 10 feet, the same size as those in the Bangalore bakery, would be more convenient.

9. It is possible there may be some practical objection to using water-power for the purpose of grinding, bolting and kneading the flour. In this case, I would suggest that application be made to the Ordnance Department for an 8 horse-power vertical engine which, I understand, can be spared from the Gun Carriage Factory; the shafting, &c., would not cost more than Rs. 1,500, leaving only the grinding stones, bolter and kneading machine to be provided.

10. It seems to me that if we can get the engine from the Gun Carriage Factory, all the rest could be put up cheaply enough; but this is a question on which I am not competent to offer an opinion.

11. I take the liberty of enclosing the ground plan* of a building which, I believe, would thoroughly meet all the requirements of a bakery, whether steam, water or bullock power were used; and I think, with a light roof, such a building might be built for a small cost by the Public Works Department.

* Dated 30th January 1884.

12. On the other hand, if there be any insuperable objection to adopting this, the plan sent by the Executive Engineer, with modifications, might answer, provided cheap steam machinery were used.

13. The modifications I should suggest would be: 1st, the doing away with the separate building for the ovens and putting these (4, each 12' by 10') behind the room marked "Bakery," which would have to be lengthened accordingly; 2nd, the erection of an enclosed lean to outside the boiler-room for the storage of firewood; 3rd, some provision for keeping the stock of wheat required for the monthly grinding.

No. 589, Military.

Transferred and the referred papers returned to the Public Works Department, with an expression of the concurrence of Government in the Military Department in His Excellency the Commander-in-Chief's opinion.

(By Order.)

FORT ST. GEORGE,
6th February 1884.

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Officiating Secretary to Government.

ORDER—dated 8th February 1884, No. 338 W., Public Works.

Communicated to the Superintending Engineer, IV Circle, who will report, with the least possible delay, on the rough design furnished by the Commissary-General, and submit detailed plans and estimates based thereon, should that design appear free from objection.

2. The question of adopting water-power to drive the machinery, as suggested by the Commissary-General, should be fully considered.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

//

To the Superintending Engineer, IV Circle, with ~~twelve~~ enclosures.
" Military Department.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated February, 8th.

Recd. *Enc*

G.O., 8th Feb. 1884, No. 338 W

FEBRUARY.

Bakery at Wellington

The Superintending Engineer, IV Circle, directed to report on the rough design furnished and suggestions made by the Commissary-General for constructing a —, and to submit detailed plans and estimates based thereon, if the design appears free from objection.

FINAL ISSUE.

135/8

IMPERIAL.
MILITARY WORKS.

MADRAS.

PUBLIC WORKS DEPARTMENT.

IMPERIAL BUDGET-ESTIMATE

OF

MILITARY WORKS

OF THE

GOVERNMENT OF MADRAS

FOR THE YEAR

1884-85.

CHEPÂK,
31st March 1884.

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Government, P.W.D.

IMPERIAL.
MILITARY WORKS.

535/5 MADRAS.

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IMPERIAL.
MILITARY WORKS.

MADRAS.

REVENUE.

ABSTRACT OF THE BUDGET-ESTIMATE OF REVENUE OF THE PUBLIC WORKS DEPARTMENT FROM MILITARY WORKS IN MADRAS FROM 1st APRIL 1884 TO 31st MARCH 1885.

	Budget Estimate, 1884-85.	Revised Estimate, 1883-84.	Budget Estimate, 1883-84.	Actuals, 1882-83.
	Rs.	Rs.	Rs.	Rs.
In Public Works Department	32,000	30,000	30,000	28,274
In Civil and Military Departments	...	...	...	...
Total ...	32,000	30,000	30,000	28,274

CHARGES.

ABSTRACT OF THE BUDGET-ESTIMATE OF EXPENDITURE OF THE PUBLIC WORKS DEPARTMENT OF MILITARY WORKS IN MADRAS FOR THE YEAR FROM 1st APRIL 1884 TO 31st MARCH 1885.

	Reference to Detailed Estimate.	Budget Estimate, 1884-85.	Revised Estimate, 1883-84.	Budget Estimate, 1883-84.	Actuals, 1882-83.
		Rs.	Rs.	Rs.	Rs.
Original Works. In progress ...	4, 5	1,20,980	2,08,322	2,06,787	2,48,365
Original Works. Not commenced.	6, 7	77,320			
Repairs ... ... Ordinary ...	...	2,75,000	2,70,329	2,75,000	2,92,955
Repairs ... ... Special ...	...	...	...	...	...
Establishment	...	1,10,300	1,11,629	1,12,288	1,11,767
Tools and Plant	...	7,000	7,120	7,225	7,221
Suspense Account	...	...	...	...	...
Total ...	...	5,90,600	5,97,400	6,01,300	6,60,308

IMPERIAL.
MILITARY WORKS.

535/10 MADRAS.

ABSTRACT OF THE CHARGES TO BE INCURRED BY THE PUBLIC WORKS DEPARTMENT FROM IMPERIAL FUNDS AND CONTRIBUTIONS IN BOTH INDIA AND ENGLAND.

	BUDGET-ESTIMATE, 1884-85.									Revised Estimate, 1883-84.	Budget Estimate, 1883-84.	Actuals, 1882-83.
	Original Works.			Repairs.	Establishment.	Tools and Plant.	Suspense Account.	Barrack Department.	Total.			
	In progress.	Not commenced.	Total.									
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	Rs.	Rs.	Rs.	Rs.
Provision from Imperial Funds.												
In India ...	1,20,980	77,320	1,98,300	2,75,000	1,10,300	7,000	...	...	5,90,600	5,97,400	6,01,300	6,60,308
In England.	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	1,20,980	77,320	1,98,300	2,75,000	1,10,300	7,000	...	...	5,90,600	5,97,400	6,01,300	6,60,308
Provision from Contributions.												
In India ...	...	...	...	...	...	...	...	...	...	...	...	...
Grand Total.	1,20,980	77,320	1,98,300	2,75,000	1,10,300	7,000	...	...	5,90,600	5,97,400	6,01,300	6,60,308

STATEMENT SHOWING THE WORKS ON WHICH THE OUTLAY IN ENGLAND ABOVE PROVIDED FOR IS TO BE INCURRED.

	BUDGET-ESTIMATE, 1884-85.						Revised Estimate, 1883-84.	Budget Estimate, 1883-84.	Actuals, 1882-83.
	Original Works.			Tools and Plant.	Suspense Account.	Total.			
	In progress.	Not commenced.	Total.						
	Nil.								

IMPERIAL.
MILITARY WORKS.

PART

DETAIL OF THE BUDGET-ESTIMATE FOR

CLASS

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				IMPERIAL ORDINARY.	
				Military.	
				Original Works.	
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	Chingleput.	St. Thomas' Mount.	1	New barracks for Royal Artillery...	1,35,050
	Coimbatore.	Malapuram ...	2	Barracks for detachment, British Infantry, to accommodate 100 men.	1,31,610
	Presidency.	Bangalore ...	3	Alterations and additions to wash-houses for the British Infantry.	12,500
Buildings for Native Troops.	North Arcot.	Vellore ...	4	Armourer's shop for Native Infantry Regiment.	2,800
(2) Ordnance Works ...	Presidency.	Madras ...	5	Completing the emplacements and improving the store-rooms, &c., of the coast batteries.	48,800
	Do. ...	Fort St. George.	6	Armament of Fort St. George ...	42,035
	Do. ...	Madras ...	7	Improvements to the gunpowder factory.	2,48,492
(3) Commissariat Buildings.	Coimbatore.	Cannanore ...	8	Converting the old Artillery stables at Cannanore into a bakery, and sinking a well.	11,380
				Total ...	...

535/11

MADRAS.

I.

ORIGINAL WORKS FOR THE YEAR 1884-85.

A WORKS.

Outlay.		Grant, 1884-85.			Item No.	Remarks and References.
Actual to end of 1882-83.	Probable during 1883-84.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
37,349	30,000	30,000	...	30,000	1	G.Os., No. 1894 W., of 25th July 1882, No. 3679 W., of 21st December 1883, and No. 288 W., of 4th February 1884. Item No 2 of class A works of budget of 1883-84.
10,547	32,000	38,000	...	38,000	2	Revised estimate sanctioned in G.O., No. 580 W., of 3rd March 1884. Item No. 3 of class A works of budget of 1883-84.
...	8,000	4,000	...	4,000	3	G.O., No. 1102 W., of 7th May 1880. Item No. 1 of class B works of budget of 1883-84.
...	820	1,980	...	1,980	4	G.O., No. 1547 W., of 20th June 1881.
...	30,000	10,000	...	10,000	5	G.Os., No. 1661 W., of 13th June 1883, and No 20 W., of 8th January 1884. Item No. 34, appendix B of budget of 1883-84.
...	...	...	30,000	30,000	6	G.O., No. 2970 W., of 19th Oct. 1883. Item No. 2, class B works of budget of 1883-84.
1,98,737	16,935	10,000	...	10,000	7	G.Os., No. 187 W., dated 16th January 1883, No. 2073 W., of 30th July 1883, No. 2748 W., of 1st October 1883, No. 3278 W., of 7th November 1885, and No. 800 W., of 25th March 1884. Further estimates under preparation.
...	5,000	2,500	...	2,500	8	Revised estimate sanctioned in G.O., No. 181 W., of 21st January 1884. Item No. 41, appendix B of budget of 1883-84.
...	...	96,480	30,000	1,26,480		

IMPERIAL.
MILITARY WORKS.

PART

DETAIL OF THE BUDGET-ESTIMATE FOR

CLASS B

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				IMPERIAL ORDINARY	
				Military.	
				Original Works.	
(1) *Accommodation for troops*— Buildings for European troops.	Chingleput...	St. Thomas' Mount.	1	Constructing six blocks of stables for two field batteries of Royal Artillery.	20,160
Buildings for Native troops.	Trichinopoly.	Trichinopoly...	2	Constructing public buildings in connection with the lines of 30th Regiment, Native Infantry.	12,350
(3) Commissariat Buildings.	Presidency ...	Madras ...	3	Quarters for three Warrant and five Non-Commissioned officers of the Commissariat department.	26,740
(8) Fortifications.	Do. ...	Bangalore ...	4	Constructing a fortified post and ordnance depôt at Agram.	34,280
			5	Minor works	
				Total ...	...

535/12

MADRAS.

I—*cont.*

ORIGINAL WORKS FOR THE YEAR 1884-85.

WORKS.

Outlay.		Grant, 1884-85.			Item No.	Remarks and References.
Actual to end of 1882-83.	Probable during 1883-84.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	...	...	10,000	10,000	1	G.O., No. 2747 W., of 1st October 1883.
...	3,000	4,500	...	4,500	2	G.O., No. 3128 W., of 5th November 1883. Item No. 32, appendix B of budget of 1883-84.
...	...	...	15,000	15,000	3	G.O., No. 1836 W., of 2nd July 1883. Item No. 45, appendix B of budget of 1883-84.
...	8,032	20,000	...	20,000	4	G.O., No. 3060 W., of 30th October 1883.
...	...	...	22,320	22,320	5	
...	...	24,500	47,320	71,820		

IMPERIAL.
MILITARY WORKS.

535/13

MADRAS.

APPENDIX B.

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1884-85, BUT ON WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM CLASS B WORKS.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay. Actual to end of 1882-83.	Outlay. Probable during 1883-84.	Grant, 1884-85. Works in progress.	Grant, 1884-85. Works not commenced.	Grant, 1884-85. Total.	Item No.	Remarks and References.
				IMPERIAL ORDINARY.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				MILITARY.								
				Original Works.								
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	Presidency.	Fort St. George.	1	Converting the Racquet Court in Fort St. George into a covered gymnasium.	11,570	...	...	..	...	...	1	G.O., No. 590 W., of 4th March 1884. Item No. 17, Appendix B, Budget of 1883-84.
	Do. ...	Do. ..	2	Armourer's shop for the European Infantry Regiment.	...	...	...	...	...	...	2	Estimate awaited.
	Do. ...	Bangalore ...	3	Garrison gymnasium of the fourth class.	44,600	1,788	...	...	...	...	3	G.O., No. 1560, of 21st June 1876.
	Do. ..	Do. ...	4	Quarters for the Apothecary attached to the Station Hospital.	5,300	...	...	...	...	...	4	G.O., No. 3385 W., of 27th November 1883.
	Bellary ...	Bellary ...	5	Infectious disease ward and cook-house for the Station Hospital.	6,140	...	...	...	...	...	5	G.O., No. 320 W., of 7th February 1884.
	Coimbatore.	Cannanore ...	6	Plunge-bath for British Infantry.	4,690	...	...	...	...	...	6	G.O., No. 418, of 10th February 1876.
	Chingleput.	St. Thomas' Mount.	7	Coffee-shops, three in number, one for each—North, South, and the New Artillery Barracks.	...	...	...	...	...	...	7	Estimate awaited.
	Coimbatore.	Malapuram ...	8	Gymnasium for a detachment of British Infantry.	...	...	...	...	...	...	8	Estimate awaited.
	Chingleput.	Poonamallee...	9	Barracks for European troops at Poonamallee.	2,70,506	50,989	9,335	...	...	...	9	G.O., No. 465 W., of 19th February 1879. Item No. 1 of Class A Works of Budget, 1883-84. Work held in abeyance.
	Do. ...	St. Thomas' Mount.	10	Raising the main walls and renovating the roofing of the east and west harness-rooms.	...	...	...	...	...	...	10	Estimate awaited.
	Presidency.	Bangalore ...	11	Constructing stables for three batteries of Royal Horse Artillery and Field Battery.	...	...	...	...	...	...	11	Estimate awaited.
	Coimbatore.	Cannanore ...	12	Improving latrines for the British Infantry.	2,780	...	...	...	...	...	12	G.O., No. 1056, of 4th April 1879.
	Bellary ...	Bellary ...	13	New gun-sheds with collar maker's and wheel-shop combined for the Royal Artillery.	...	...	...	...	...	...	13	Estimate awaited.
	Do. ...	Do. ...	14	Water-supply to Barracks, Royal Artillery and British Infantry.	...	...	..	...	...	...	14	Estimate awaited.
	Do. ...	Do. ...	15	Drainage and improvements to Barracks, British Infantry and Royal Artillery.	...	...	...	...	...	...	15	Estimate awaited.
	Presidency.	Bangalore ...	16	Quarters for an Assistant Apothecary, North Station Hospital.	...	...	...	...	...	...	16	Estimate awaited.
	Do.	Fort St. George.	17	Purchase of Exchange House ...	70,000	61,600	...	...	...	...	17	G.Os., No. 751 W., of 18th March 1881, and No. 2724 W., of 19th October 1882.
Buildings for European troops on the hills.	Nilgiri ...	Wellington ...	18	Gymnasium for the Depôt ...	...	...	...	...	...	...	18	Estimate awaited.
	Do. ...	Do. ...	19	Drainage pipe for the remaining block, the same as No. 5 block.	...	...	...	...	...	...	19	Estimate awaited.
	Do. ...	Do. ...	20	Bath-room to wash-houses ...	3,120	...	...	...	...	...	20	G.O., No. 1472 W., of 4th June 1874.
	Do. ...	Do. ...	21	Female Hospital at the Wellington Depôt.	...	...	...	..	..	...	21	Estimate awaited.
				Carried over ...	...							

IMPERIAL.
MILITARY WORKS.

APPENDIX

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1884-85, FROM CLASS

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	...
				IMPERIAL ORDINARY—*cont.*	
				MILITARY—*cont.*	
				Original Works—cont.	
(1) *Accommodation for troops*—					
Buildings for European troops on the hills.	Nilgiri ...	Wellington ...	22	Drinking-water to be laid on to Hospital.	...
	Do. ...	Do. ...	23	Quarters for a Warrant Officer or Staff Sergeant of the Barrack Department.	...
Permanent.					
Buildings for Native Troops.	Presidency.	Bangalore ...	24	Public buildings for a Regiment of Native Cavalry.	25,237
	Bellary ...	Bellary ...	25	Armourer's shop, Light Cavalry ..	2,695
	Chingleput.	Pallávaram ...	26	One mortuary-room for each of the Store Hospitals Nos. 1 to 3.	...
	Do. ...	Do. ...	27	Regimental Magazine	...
	Presidency.	Bangalore ...	28	Accommodation for one Regiment of Native Infantry.	...
	Trichinopoly.	Trichinopoly...	29	Accommodation for a third Regiment of Native Infantry as above.	...
	Do. ...	Do. ...	30	Two latrines for Native Infantry Regiment.	...
	Coimbatore.	Quilon ...	31	Magazine for Native Infantry Barracks.	...
	Do. ...	Do. ...	32	Store-room for Native Infantry Barracks.	...
	Trichinopoly.	Trichinopoly...	33	School-room for 100 pupils of 30th Regiment, Native Infantry.	...
	Vizagapatam.	Vizagapatam...	34	Regimental store-room to be included as storage for Camp Equipage.	...
	Chingleput.	Pallávaram ...	35	New line for one Native Infantry Regiment.	...
	Ganjam ...	Berhampore ...	36	Armourer's shop	...
	Trichinopoly	Trichinopoly...	37	Four latrines for the 30th Regiment, Native Infantry.	...
				Carried over ...	...

MADRAS.

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B—*cont.*

BUT ON WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION

B WORKS—*cont.*

Outlay.		Grant, 1884-85.			Item No.	Remarks and References.
Actual to end of 1882-83.	Probable during 1883-84.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	...	...	...	...	22	Estimate awaited.
...	...	...	...	...	23	Estimate awaited.
...	...	...	...	...	24	G.O., No. 47 W., dated 10th January 1884. Item No. 24 of Appenix B of Budget of 1883-84.
...	...	...	...	...	25	G.O., No. 2266 W., dated 14th September 1881.
...	...	...	...	...	26	Estimate awaited.
...	...	...	...	...	27	Estimate awaited
...	...	...	...	...	28	Estimate awaited.
...	...	...	...	...	29	Estimate awaited.
...	...	...	...	...	30	Estimate awaited.
...	...	...	...	...	31	Estimate awaited.
...	...	...	...	...	32	Estimate awaited.
...	...	...	...	...	33	Estimate awaited.
...	...	...	...	...	34	Estimate awaited.
...	...	...	...	...	35	Estimate awaited.
...	...	...	...	...	36	Estimate awaited.
...	...	...	...	...	37	Estimate awaited.

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1884-85, BUT FROM CLASS

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	
				IMPERIAL ORDINARY—*cont.*	
				MILITARY—*cont.*	
				Original Works—cont.	
(1) *Accommodation for troops*—Buildings for Native troops. Permanent ...	Trichinopoly.	Trichinopoly...	38	Proposed enlargement and constructing outer verandahs to 30th Regiment, Native Infantry Barracks.	...
	Nilgiri ...	Ootacamund...	39	Barracks for a detachment of Native Infantry.	12,930
(2) *Ordnance Works* ...	Presidency.	Madras ...	40	Improvements to the barrel machine shop of the Gun Carriage Factory.	4,030
(3) *Commissariat Buildings.*	Do. ...	Do. ...	41	Quarters for Station Butcher ...	...
	Chingleput.	Guindy ...	42	Converting the late Superintending Engineer's Office at Guindy into a Commissariat Slaughter-house.	11,800
	Presidency.	Madras ...	43	Sheds for public cattle and lines for their attendants.	...
	Coimbatore.	Malapuram ...	44	Quarters for Commissariat Staff Sergeant.	...
(5) *Stud*	Nilgiri ...	Wellington ...	45	Bakery	...
(6) *General Cantonment Works.*	Salem ...	Hosúr ...	46	Purchase of Dr. Wells' house at Remount Depôt.	2,500
	Nilgiri ...	Wellington ...	47	Water-supply improvements ...	...

B—*concld.*

ON WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION

B WORKS—*concld.*

Outlay.		Grant, 1884-85.			Item No.	Remarks and References.
Actual to end of 1882-83.	Probable during 1883-84.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	...	...	...	...	38	Estimate awaited.
...	...	...	...	...	39	G.O., No. 612 W., of 6th March 1884.
...	...	...	...	...	40	G.O., No. 2413 W., of 16th September 1882.
...	...	...	...	...	41	Estimate awaited.
...	...	...	...	...	42	G.O., No. 1399 W., of 12th May 1883.
...	...	...	...	...	43	Estimate awaited.
...	...	...	...	...	44	Estimate awaited.
...	...	...	...	...	45	Estimate awaited.
...	...	...	...	...	46	G.O., No. 2903 W., of 15th October 1883.
...	...	...	...	...	47	Estimate awaited.
...	...	...	...	...		

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following paper :—

From the Government of India, Military Department, dated Fort William, 13th March 1884, No. 278 M.W.

Orders on the Madras Military Works Budget Estimate, 1884-85, and Revised Estimate, 1883-84.

Read—

Military Department Resolution, No. 1091 M.W., dated 1st November 1883.
Letter, No. 3645 W., dated 19th December 1883, from Secretary to Government of Madras, Public Works Department.
Telegram, dated 15th February 1884, to Secretary to Government of Madras, Public Works Department.
Telegram, dated 16th February 1884, from Secretary to Government of Madras, Public Works Department.

Resolution.—The estimates of revenue accepted by the Government of India are shown below :—

——	Budget Estimate, 1884-85.	Revised Estimate, 1883-84.	Budget Estimate, 1883-84.	Actuals, 1882-83.
	Rs.	Rs.	Rs.	Rs.
In Public Works Department	32,000	30,000	30,000	28,274
Total ...	32,000	30,000	30,000	28,274

2. The estimate of expenditure during 1884-85 has been prepared for the provisional grant of Rs. 6,50,000 sanctioned in November last. The distribution under departmental heads is shown in the following statement :—

——	Budget Estimate, 1884-85.	Revised Estimate, 1883-84.	Budget Estimate, 1883-84.	Actuals, 1882-83.
	Rs.	Rs.	Rs.	Rs.
Original Works ... {In progress	96,480	2,04,000	1,00,000	2,48,365
Original Works ... {Not commenced	1,49,520		39,987	
Repairs	2,75,000	2,72,500	2,75,000	2,92,955
Total Works and Repairs ...	5,21,000	4,76,500	4,14,987	5,41,320
Establishment	1,21,200	1,11,100	96,988	1,11,767
Tools and plant	7,800	7,200	6,225	7,222
Total ...	6,50,000	5,94,800	5,18,200	6,60,309

The budget estimate for 1883-84 should be quoted at Rs. 6,01,300, with details working up to that total as passed in paragraph 3 of the orders on the budget estimate for 1883-84. This should be rectified in the final issue of the budget estimate.

Budget Estimate, 1884-85.

3. It is observed that provision has been made for the following works for which no sanctioned estimates exist :—

		Provision.
		Rs.
Item 9.	—Covered gymnasium, Fort St. George	9,000
" 11.	—Water-supply to barracks for Royal artillery and British infantry at Bellary	3,000
" 12.	—Drainage and improvements to barracks, Royal Artillery and British infantry, at Bellary	3,000
" 13.	—Accommodation for native cavalry, Bangalore	25,000
" 15.	—Armourer's shop, light cavalry, Bellary	2,700
" 17.	—Bakery, Wellington	5,000
		47,700

The Government of India regret that no funds can be allotted for these works until the detailed estimates have been approved and sanctioned, when the Government of India would be glad to see the projects, except that for an armourer's shop. Funds for accommodation for a regiment of native cavalry at Bangalore are also withheld, pending the receipt of further information as to the nature of the work.

	Rs.
* Works	47,700
Establishment and tools and plant...	11,700
	59,400

4. The grants noted above, together with the usual percentages for establishment and tools and plant, have accordingly been disallowed.* The final issue of the budget estimate should be prepared for a total grant of Rs. 5,90,600.

Revised Estimate, 1883-84.

5. The revised estimate is passed for Rs. 5,97,400, the amount of the modified grant to date.

6. The local Government is authorised to incur expenditure within the limits of the amounts passed, subject to the condition of a strict adherence to the rules in force regarding the financial regularity of departmental work.

Order.—Ordered that the foregoing be communicated to the Government of Madras, with the request that forty-five printed copies of the final issue of the budget estimate, as now passed, may be submitted, so as to reach the Government of India not later than the 1st May 1884.

Ordered also, that a copy be forwarded to the Accountant-General, Public Works Department, for information.

Order—dated 31st March 1884, No. 858 W., Public Works.

Ordered that the final issue of the Imperial military works budget estimate for 1884-85, prepared for the modified grant of Rs. 5,90,600, sanctioned in the resolution read at the head of these proceedings be printed, and forty-five copies forwarded to the Government of India.

2. The grants disallowed have been omitted in the final issue of the budget estimate; the works being transferred to Appendix B. Estimates have, it is observed, since been sanctioned for the works noted in the margin. The Government of India will accordingly be requested to re-allot, as early as practicable, the grants which have been withdrawn, to admit of the works being at once put in hand. The estimates for works numbered 1 and 2 will be forwarded to the Government of India, as requested in paragraph 3 of their resolution.

	Rs.
1 Converting the racquet court in Fort St. George, into a covered gymnasium	11,570
2 Public buildings for a regiment of native cavalry at Bangalore ...	25,237
3 Armourer's shop for light cavalry at Bellary	2,695

3. The estimates for drainage and improvements to barracks at Bellary are now with the military authorities; and those for the water-supply at the same station are expected to be ready in April. The Superintending Engineer, IV Circle, will hasten the submission of the estimates for the bakery at Wellington.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To Superintending Engineers.
To the Examiner, Public Works Accounts.
" Military Department.
" Financial "

Exd. E. Fernandez.
Spare Copies

GENERAL
ACCOUNT.

Govt. of [1884] Madras

PUBLIC WORKS.

Dated March, 31*st*.

Read. *Encl*.

G.O., 31st March 1884, No. 858 W.

MARCH.

Budget Estimate

Passing orders on the final issue of the Imperial military works — for 1884-85.

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers:—

From Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 5th May 1884, No. 30-A.

In retransmitting correspondence received under your reference order, No. 1489, of the 25th March last, I have the honor to forward letter, No. 604, dated 30th April 1884, from the Commissary-General, requesting that the rough revised plan for a bakery at Wellington, as proposed by Colonel Hawkes and attached to his letter, No. 445, of the 23rd April, may be submitted to Government, and am desired to say that His Excellency the Commander-in-Chief approves of the alteration in the design, and considers that for the present the question of machinery for the bakery may be deferred.

2. His Excellency will be glad to be favored with an estimate for the proposed building at an early date.

ENCLOSURES.

From Colonel B. H. W. MAGRATH, Commissary-General, to the Quartermaster-General, Ootacamund, dated Madras, 23rd April 1884, No. 445.

I have the honor to acknowledge the receipt of letter, No. 135 E.W., of 6th March 1884, from the Superintending Engineer, IV Circle, forwarded under your endorsement, No. 2234, of the 4th April.

2. The Superintending Engineer reports that buildings on the plan suggested in my letter, No. 6484, of 1st February 1884, would cost Rs. 36,000 if built pucka; this, with the additional cost of machinery and mill race, would raise the estimate to Rs. 55,260.

3. I, therefore, now submit a revised sketch plan for a smaller building, final estimates for which may, I trust, be prepared at an early date. I calculate roughly that the area is 5,200 square feet, which at Rs. 4 per foot would amount to Rs. 20,800 for the buildings. The open shed for wood is not included in this. It need be only a corrugated iron roof on pillars.

4. I estimate that the total cost would be as follows:—

	Rs.
Buildings	20,800
Water-wheel	2,000
Two flour mill (2 stones)	2,300
Dam and mill race	2,500
Latrine	760
Total ...	28,360

5. The enclosures of your reference are herewith returned.

From Colonel B. H. W. MAGRATH, Commissary-General, to the Quartermaster-General, dated Madras, 30th April 1884, No. 604.

In reply to your telegram, No. 68, dated 29th April 1884, I have the honor to request that an estimate for a bakery building on the plan suggested by Colonel Hawkes and sent with my letter, No. 445, of 23rd April 1884, may first be submitted for the approval of Government, leaving out any mention of the necessary machinery which can hereafter be considered.

No. 2167, Military.

Transferred to the Public Works Department and the previous papers returned.

2. Colonel Hawkes' revised plan is approved.

(By Order.)

8th May 1884. (Signed) A. R. KENNEY-HERBERT, Lieut.-Col., Offg. Secretary to Government.

No. 116 E., Public Works.

Copies of the above, with enclosures, are forwarded to the Superintending Engineer, IV Circle, with advertence to his letter, No. 135-E.W., dated 6th March 1884, and with a request that revised estimates may be framed accordingly, and submitted, as early as practicable, for the sanction of Government, through the military authorities.

9th May 1884. (Signed) J. SHAW-STEWART, Col., R.E., Chief Engineer, P.W.D.

From Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 2nd July 1884, No. 558-A.

With reference to this office letter, No. 30-A., dated 5th May 1884, I have the honor, by order, to forward, for sanction and transfer to the Public Works Department for disposal, the estimate, plan, &c., below-mentioned, which have been approved by the Commander-in-Chief. The plan and estimate have been countersigned :—

1. Plan and estimate, amounting to Rs. 31,240, for constructing a bakery, &c., at Wellington.
2. Plan and estimate, amounting to Rs.760, for constructing a latrine for the above.

No. 3193, Military.

Approved and transferred to the Public Works Department.

(By Order.)

OOTACAMUND, 3rd July 1884. (Signed) A. R. KENNEY-HERBERT, Lieut.-Col., Offg. Secretary to Government.

ORDER—dated 29th July 1884, No. 1838 W., Public Works.

The estimate, amounting to Rs. 32,000, for constructing a bakery at Wellington, is sanctioned.

2. This sanction, which supersedes that accorded in G.O., No. 2211 W., dated 10th August 1883, has been registered as Imperial Ordinary No. 21 W. of 1884-85, and classified as Military Original Works.

3. A copy of these proceedings, with the plans and estimates,* will be forwarded to the Government of India, with advertence to their letters marginally quoted, and with request that the grant of Rs. 5,000 struck out of the preliminary issue of the Madras military works budget for 1884-85, may now be re-allotted.

* Requested to be returned.

No. 804 M.W., dated 29th August 1883.
" 278 " " 13th March 1884, paragraph 3.

(Here enter No. 1839 W., dated 29th July 1884.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E., Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle.
" Examiner, Public Works Accounts.
" Military Department.

ENDORSEMENT—dated 29th July 1884, No. 1839 W., Public Works.

Forwarded.

(Signed) J. SHAW-STEWART, Colonel, R.E., Secretary to Govt., P.W.D.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated July, 29*th*.

Read. *Encl.*

G.O., 29th July 1884, No. 1839 W

JULY.

Wellington Bakery

The Government of India requested to re-allot the grant of Rs. 5,000 for the — struck out by them of the preliminary issue of the military works budget estimate for 1884-85.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 13th October 1884, No. 471 E.W.:—

With reference to G.O., No. 2440 W., of 2nd instant, I have the honor to report that, as the water-supply of Coonoor is occasionally scanty in the dry season, it has hitherto been considered certain that there would not be enough water to work the bakery machinery for some months in the dry season.

2. Major Smith is now of opinion, as will be seen by his letter,* copy of which I send, that even in the monsoon months the supply is doubtful.

* No. 351 of 11th October 1884.

3. The only way to settle the matter is to gauge the supply in the stream for a period of six months and compare it with the rainfall.

4. I have requested the Executive Engineer to submit an estimate for an overfall weir and for gauging.

ENCLOSURE.

From Major A. C. SMITH, R.E., Executive Engineer, Nilgiri Division, to the Superintending Engineer, IV Circle, dated Cherambádi, 11th October 1884, No. 351.

With reference to your endorsement, No. 481 N.I., of 6th instant, I have the honor to report that my remark that "the water power" for the proposed bakery, Wellington, "is doubtful" is based upon the fact that the turbine set up by Messrs. Groves and Co. on the same stream, but lower down at Coonoor, has only just sufficient water to work it in dry months, and the bakery site is situated *above* a large stream that supplements the supply to the turbine.

2. A *water wheel* was proposed for the bakery and sanctioned in G.O., No. 1838 W., of 29th July 1884, and when inspected, the site in September last then certainly was not sufficient water to work a water wheel. A turbine has been suggested as requiring less water, but even supposing we could get sufficient head and fall to work a turbine, I still have my doubts as to sufficiency of water in what may be called *the dry months*, supposing September to be a *wet month*.

3. It would of course be a very simple matter as suggested (in his letter, No. 3136, of 4th September 1884) by the Commissary-General (paragraph 5), to decide the question for any one month by gauging the stream; but as no observations have been taken for one month even—let alone a full year—he would be a bold man, who would assert that the water-supply were sufficient, and Mr. Larminie in his No. 573, of 27th February 1884, to your address states (paragraph 9) "for a short time during the dry season the supply would be scanty."

4. As I am under the impression that the grinding process will have to be carried on uninterruptedly throughout the year, I am obliged to doubt the efficacy of the water power for the purpose.

5. The buildings can be constructed, but I should certainly advise the machinery question to lie over until we have fully investigated the amount of water likely to be at our disposal.

6. In order to do this, an overfall weir would have to be constructed at the proposed site for the dam and the water carefully gauged throughout the coming dry season.

7. If good results are obtained, we can then arrange for water power, if not steam machinery will have to be allowed. I am inclined to think the latter will be necessitated, especially if the mill is to work all the year round.

ORDER—dated 22nd October 1884, No. 2589 W., Public Works.

Communicated to the Military Department.

2. The estimate referred to in paragraph 4 of the Superintending Engineer's letter should be submitted without delay.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Military Department.
" Superintending Engineer, IV Circle.

Exd. A. Grubert.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of 1884 Madras.

PUBLIC WORKS.

Dated October, 22nd.

Recd. *Encl.*

G.O., 22nd Oct. 1884, No. 2589 W.

OCTOBER.

Bakery at Wellington

Letter from the Superintending Engineer reporting on the subject of the water power required to work the machinery of the —, communicated to the Military Department.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following letter from the Secretary to the Government of India, Military Department, to the Secretary to the Government of Madras, Public Works Department, dated Simla, 20th October 1884, No. 1052 M.W.:—

In reply to your letter, No. 1839 W., dated 29th July 1884, I am directed to state, for the information of the Governor in Council, that the Government of India are pleased to re-allot the sum of Rs. 6,200, struck out of the preliminary issue of the Madras Military Works budget estimate of the current year, for the construction of the bakery at Wellington.

2. This sum includes the authorised percentage for establishment and tools and plant.

3. The plans and estimates received with your letter under reply are herewith returned as requested.

ORDER—dated 29th October 1884, No. 2668 W., Public Works.

Communicated to the Superintending Engineer, IV Circle, for information and guidance, with advertence to proceedings of Government, under date the 29th July 1884, No. 1838 W.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with plan and estimate.
" Examiner, Public Works Accounts, with duplicate abstract estimate.
" Military Department.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated October, 1884.

Read. *Encl.*

G.O., 29th Oct. 1884, No. 2668 W.

OCTOBER.

Bakery at Wellington

Letter from the Government of India, re-allotting funds for the —, communicated to the Superintending Engineer.

535/29

20TH DECEMBER 1884, No. 3147 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 16th December 1884, No. 555 E.W. :—

With reference to paragraph 2 of G.O., No. 2589 W., of 22nd October 1884, I have the honor to forward, for sanction and provision of funds, a plan and estimate, amounting to Rs. 440, with a report, for constructing a dam or over-fall weir across the Kanacoonthoory river or stream at Wellington for the purpose of gauging the supply in that stream in order to find the water-power available for the proposed bakery.

ORDER—dated 20th December 1884, No. 3147 W., Public Works.

The estimate, amounting to Rs. 440, for constructing a dam to gauge the water-power available for the Wellington bakery is sanctioned. The expenditure will be met from the current year's grant for the bakery.

2. This sanction has been registered as Imperial No. 58 W. of 1884-85, and classified as Military, Original Works.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with three enclosures.
" Examiner, Public Works Accounts.
" Military Department.

Exd. A. Aubert.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1884} Madras

PUBLIC WORKS

Dated December, 20th.

Read. Encl

G.O., 20th Dec. 1884, No. 3147 W.

DECEMBER.

Dam

Estimate for a — to gauge the water-power available for the Wellington bakery, sanctioned.

535
Dep

26TH MARCH 1886, No. 828 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers:—

From Colonel H. P. HAWKES, Officiating Commissary-General, to the Secretary to Government, Military Department, dated Madras, 22nd February 1886, No. 7470—Through the Quartermaster-General.

I have the honor to forward copy of letter, No. 2808, dated 12th February 1886, from the Executive Engineer, Nilgiri division, Ootacamund, saying that, though the bakery building will shortly be ready, no arrangements have been yet made for obtaining machinery from England "for want of funds."

2. I have therefore been compelled very reluctantly to extend the bread contract of Messrs. Groves and Company until the 30th September next, and sincerely hope that before that date the Public Works Department may be in a position to hand over the Wellington bakery to this department complete with machinery and ready for work.

ENCLOSURE.

From Major A. C. SMITH, R.E., Executive Engineer, Nilgiri division, to the Commissary-General, Madras, dated Ootacamund, 12th February 1886, No. 2808.

With reference to your inquiry regarding the bakery now under construction at Wellington, I have the honor to inform you that, owing to want of funds and sanction to efficient machinery, none has yet been ordered from England. Further orders of Government are awaited.

No. 1040 A.

Forwarded. Sir Herbert Macpherson hopes that no effort will be spared to ensure the bakery at Wellington being in working order by the 1st October next.

(By Order.)

(Signed) E. FAUNCE, Colonel,
Offg. Quartermaster-General.

OOTACAMUND,
15th March 1886.

No. 1721, Military.

Transferred to the Public Works Department.

(By Order.)

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Secretary to Government.

FORT ST. GEORGE,
17th March 1886.

ORDER—dated 26th March 1886, No. 828 W., Public Works.

Communicated to the Superintending Engineer, IV Circle, who will expedite the submission of the revised estimate called for in G.O., No. 2646 W., dated 7th November 1885.

2. The Executive Engineer's statement, in his letter, No. 2808 W., dated 12th February 1886, that "owing to want of funds and sanction to efficient machinery, none has yet been ordered from England," is not understood. A grant of Rs. 27,000 was provided in the Military Works budget estimate for 1885-86 for the Wellington bakery; but of this sum the Superintending Engineer surrendered Rs. 6,800 in his communications recorded in the proceedings marginally quoted. It is not understood also what "further orders of Government are awaited" with respect to the machinery. It was understood from the papers recorded in G.O., No. 2646 W., dated 7th November 1885, that the cost of the machinery had been greatly underestimated, and that the full value would be included in the revised estimate for the project. The Superintending Engineer should at once communicate with the General Superintendent, Public Works Stores, in view to an emergent indent on the Home Government being framed for such of the machinery as must be obtained from England.

No. 152 W., dated 18th January 1886.
" 596 W., " 5th March "

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle.
" Military Department.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated March, 26th.

Read. *Encl.*

G.O., 26th Mar. 1886, No. 328 W.

MARCH.

Wellington Bakery

Endorsement of the Military Department transferring letter from the Officiating Commissary-General requesting that the — may be handed over to his department complete with machinery, &c.; by the 30th September, communicated to the Superintending Engineer, IV Circle, with remarks.

135/26

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

5th February 1885, No. 610.

Accounts.

Read the following paper:—

No. 90. *From Colonel G. CHESNEY, Secretary to the Government of India, Military Department, to the Secretary to the Government of Bombay, Military Department: dated Fort William, the 20th January* 1885, *No. 74-M.W.*

Accounts.

I am directed to acknowledge the receipt of the copy of Bombay Government Resolution, No. 5212, dated 16th December 1884, together with Bombay Government Resolution, No. 4308, dated 16th October, and the Controller's report referred to therein, which show that the Government of Bombay have decided that the cost of erecting certain machinery in the arsenal at Bombay shall be charged against the grant for Military Works.

2. It appears from the 1st para. of the Resolution, dated 16th December 1884, that this decision of the Government of Bombay is based upon the ruling of the Government of India conveyed in my letter, No. 222-M.W., dated 8th March 1883, viz., that the cost of erecting a shed in the Bombay arsenal and putting up the machinery which the shed was built to contain must be a charge against the Military Works grant; and that from this has been deduced a general rule that the work of erecting machinery, &c., appertains to the Public Works Department, and the cost must be defrayed from the Military Works grant.

3. I am to explain, however, that this was not the intention of the Government of India. In the case of this particular shed and its machinery the principal cost arose in the construction of the shed and of the beds of the boiler and engine and of the machines, a work which properly appertains to the Public Works Department. It would have been inconvenient and would have served no useful purpose in that particular case to have divided the total cost between two departments, and it was ruled accordingly that the whole should be a Military Works charge.

4. It was, however, not intended by this to establish a general principle, and the Government of India consider that the practice which has usually obtained hitherto should be continued, viz., that machinery should usually be set up by, and be in the charge of, the department using it, and that the services of the Public Works Department should only be called in for work which cannot properly be executed by the establishment of the factory or arsenal using the machinery.

No. 74-M.W.

Copy forwarded to the Secretary to the Government of Madras, Military Department.

* * * * *

(By Order.)

FORT WILLIAM,
20th January 1885.

(Signed) J. E. BROADBENT, Captain,
Asst. Secy. to the Govt. of India.

No. 91. ORDER THEREON, 5th February 1885, No. 610.

Communicated to departments concerned for information and guidance with reference to para. 4.

(True Extract.)

(Signed) A. KENNEY-HERBERT, Lt.-Col.,
Offg. Secretary to Government.

To the Inspector-General of Ordnance.
" Commissary-General.
" Controller of Military Accounts.
" Public Works Department.

Ext. E. C. Shanker.

P. & D.

Govt. of [1885] Madras.

MILITARY.

To

THE INSPECTOR-GENERAL OF ORDNANCE,

&c., &c., &c.

Dated February, 5th.

Issued

Recd. Encl.

G.O., 5th February 1885, No. 610.

FEBRUARY.
Nos. 90-91.

Accounts.

Machinery.—Decision of the Government of India that — should usually be set up by, and be in charge of, the department using it, as heretofore, the service of the Public Works Department being called in only when necessary for the proper execution of the work, communicated to departments concerned.

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

535/28

26th December 1884, No. 6401.

Commissariat Department—Inspection Tours.

Read the following papers:—

No. 297. *From Colonel B. H. W. MAGRATH, Commissary-General, Madras, to Lieutenant-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Madras, 1st December* 1884, *No.* 4666.

I have the honor to report, for the information of Government, the result of my inspection of the following stations:—Bellary, Secunderabad, Kamptee, Bangalore, Wellington, Cannanore, and the cattle depôt at Hoonsoor.

Sanctioned in Proceedings of Government, No. 3912, dated 13th August 1884.

2. *Bellary.*—There is nothing special to bring to the notice of Government at this station, except that a new slaughter-house, which was very much needed, was approaching completion.

3. The supply and transport branches were both in a very satisfactory condition; the transport cattle were all particularly good.

4. *Secunderabad.*—In the supply branch I found everything in excellent order.

5. Lieutenant-Colonel Laughton's efforts to improve the bread have been crowned with complete success; the ration bread at Secunderabad is, I think, the best I have ever seen in India.

6. The transport bears evidence of the careful attention bestowed by Major Kelly on his charge.

7. *Kamptee.*—At this station I found all very satisfactory; the system of native storekeepers was on its trial; but as a separate report will have to be made on this subject, I need not dwell on it now.

8. Nothing has as yet been done to remove the stores to a more central position, although the scheme has been approved of by His Excellency the Commander-in-Chief and sanctioned by the Supreme Government; this is an important point, I would beg to call particular attention to it.

Vide report of last year recorded in Proceedings of Government, No. 478, dated 31st January 1884.

9. The grazing difficulty alluded to by me in my last year's report will, I trust, be immediately settled in a satisfactory manner, through the kind co-operation of the Brigadier-General Commanding.

10. The transport cattle at Kamptee are all in first-class condition; the gear also is very serviceable.

11. *Bangalore.*—I found the Commissariat under the Executive Officer thoroughly efficient in every respect.

12. The transport cattle, with the exception of bullocks, were in good working condition; the bullocks were very poor, which the Transport Officer attributed to their having been exposed to the late heavy rains. Anthrax had appeared some time before, and the Veterinary Surgeon had directed their being removed from their sheds into the open.

13. My own opinion is that the allowance of green grass sanctioned for draught and pack bullocks is totally inadequate to keep them in good condition.

14. The failure of paddy straw had compelled the Executive Commissariat Officer to supply green grass.

15. Sheds for the protection of carts, and also a harness room, are very urgently required.

16. *Wellington.*—I was glad to learn from the Officer Commanding the Depôt that the Commissariat was working smoothly and well. My inspection confirmed the favorable opinion of the Officer Commanding, though there are points that require to be improved.

17. The contractor's bakery is dark, damp and dirty, quite unfit for the purpose; it is out of the question that good clean bread could be made in such a place.

18. Government has re-allotted Rs. 6,200 for the erection of a bakery at Wellington; this will not suffice to complete the building, but, if the Department of Public Works will build now the ovens, kneading room and sifting room, the contractor can move into it.

Vide Proceedings of Government, No. 5578, dated 11th November 1884.

19. The men at Wellington are all supposed to be invalids, and it is of vital importance that the bread supplied to them should be of the best.

20. The slaughter-house requires immediate attention; there was a most offensive smell, sufficient to taint the meat. This arose from the blood soaking in between the stones; the cracks should be asphalted.

21. Where the cattle are slaughtered, there is no flooring of any kind, the blood soaks into the ground causing a very bad smell. All this place should have an asphalte flooring.

22. A stream runs along the upper side of the slaughter-house; it can be turned on to any part of the building at little or no cost. If the slaughter-house were improved the meat might be kept a couple of days before issuing, which would be a great advantage.

23. *Cannanore and Calicut.*—A brief notice of this range will be sufficient.

24. I found everything in excellent order, both transport and supply branches bearing evidence of the Commissariat Officer's careful personal supervision.

25. On the 1st January 1885 departmental supply of bread will be commenced in the new bakery which has just been completed; the building seems in every respect suitable.

26. I had the advantage of meeting Brigadier-General Gordon at Calicut, and in his company visited the West Hill barracks.

27. A line of family quarters pointed out by General Gordon as being available would comfortably accommodate the non-commissioned officer of this department and all the stores that ought to be kept in the immediate vicinity of the barracks. At a small cost the present cook-house could be converted into a bakery sufficient to meet the requirements of the detachment; this seems to be quite indispensable.

28. *Hoonsoor.*—I had the good fortune to be at Hoonsoor when His Excellency the Commander-in-Chief inspected the depôt.

29. During the many years I had personal charge of Hoonsoor, I do not think I ever saw such a thoroughly satisfactory lot of cattle of all ages.

30. Even last year's draft, which twelve months ago I feared were scarcely up to the mark, were quite equal to the average.

31. All were in perfect condition and reflected much credit on Colonel A. C. Hay, the Officer in charge, and his subordinates.

32. In conclusion, I have only to add that experiments in ensilaging green fodder are being tried at Bangalore, Hoonsoor, Cannanore, Secunderabad and Kamptee; if it be proved beyond a doubt that the coarser grasses of the country, when subjected to this process, are converted into nutricious forage acceptable to mules and bullocks, the result will be most beneficial to Government. We shall be able to keep our cattle in good condition for very much less than the amount they now cost.

33. What I saw of silos in my tour makes me sanguine of success.

No. 298. *From Brigadier-General R. C. STEWART, Quarter Master General, to Lieutenant-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated 15th December 1884, No. 2447-A.*

In forwarding the enclosed letter * from the Commissary-General submitting, for the information of Government, a report based on his recent inspections of Bellary, Secunderabad, Kamptee, Bangalore, Wellington, Cannanore and the cattle depôt at Hoonsoor, I have the honor, by order, to state as follows with regard to such portions as call for remark by this department.

* No. 4666, dated 1st December 1884.

KAMPTEE.

Store Rooms.—The General Officer Commanding Nagpur Force was some months ago desired to place himself in communication with the Public Works Department, Central Provinces, and the Executive Commissariat Officer, Kamptee, for the conversion of the blocks of married quarters into suitable Commissariat stores under the authority conveyed in O.G., No. 123, of 9th January 1883. He will again be addressed on the subject.

Transport Lines, grazing.—The grazing difficulty appears to have been satisfactorily overcome.

BANGALORE.

Transport Cattle.—The feed allowed by regulation for draught bullocks, viz., 30 lb. of green fodder per diem, is, as stated by the Commissary-General, insufficient for the animals to work on and yet keep in good condition.

Cart-sheds and Harness Room.—This requirement will be brought to the notice of the General Officer Commanding Bangalore Division.

WELLINGTON.

Bakery.—Money will, it is expected, be duly allotted in the budget for 1885-86 sufficient to complete the Government bakery, and it is hoped that, during the coming year, the same will be in working order, and the contractor's bakery, so objectionable on sanitary grounds, abandoned.

Slaughter-house.—The defects in the slaughter-house will be at once brought to the notice of the General Officer Commanding Bangalore Division, in view to steps being taken to remedy the evils complained of, and the recommendation of the Commissary-General, as to the utilization of the stream, considered.

CALICUT.

Accommodation, Store Rooms and Bakery.—The General Officer Commanding Western District has been requested to prepare and submit estimates at an early date for the conversion of certain of the surplus married quarters on "West Hill" into suitable store rooms and accommodation for the non-commissioned officer of the Commissariat department, and also for a bakery for use of the detachment located there.

No. 299. ORDER THEREON, 26th December 1884, No. 6401.

Recorded.

(True Extract.)

A. Kenney Herbert Lt.-Col.,

Offg. Secretary to Government.

To the Quarter Master General.
" Commissary-General.
" Public Works Department.
" Adjutant-General, for information.

Exd. E. C. Shunker.

Govt. of {1884} Madras.

MILITARY.

To

THE QUARTER MASTER GENERAL,
&c., &c., &c.

SECRETARY TO GOVERNMENT
5 JAN 85
PUBLIC WORKS DEPARTMENT MADRAS

Dated December, 26th

Issued

Recd. 5/1/85 *Encl.*

G.O., 26th December 1884, No. 6401.

DECEMBER.
Nos. 297—299.

Commissariat Department—Inspection Tours.

Report from the Commissary-General of the result of his inspection of certain Commissariat stations in the Madras presidency, recorded.

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

Proc: Mily: Deptt:- (A.E. No: 6401 of 26th Dec 84)

Communicated to the Superintending Engineers III, IV, and V Circles.

2. The attention of the Superintending Engineer IV Circle is called to the remarks and suggestions in respect to the Bakery at Wellington. Provision has been

made in the Budget of 1885-86 for completion of the work.

Cd.
6.1.85

6.1.85

535/31

24TH APRIL 1885, No. 978 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Ootacamund, 9th April 1885, No. 148 E.W.:—

I have the honor to forward, herewith, a report* from the Executive Engineer, Nilgiris, giving the result of his inquiries and observations on the subject of machinery and water-power for the Wellington bakery; and as it now seems probable the water-power will be ample for nine months in the year, and that sufficient flour may be ground in the good months to last through the dry months, I request your sanction to commence building the bakery in the site already selected near Wellington bazaar.

* Letter, No. 36, of 8th April 1885.

ENCLOSURE.

From Major A. C. SMITH, Executive Engineer, Nilgiri division, to the Superintending Engineer, IV Circle, dated Ootacamund, 8th April 1885, No. 36.

In reply to your, No. $\frac{12\,C}{N.I.}$, of 1st instant, I have the honor to report that I have ascertained from the Deputy Assistant Commissary-General, Wellington, that the amount of flour required to be turned out daily is 800 lb., and that, to produce this, about 1,200 lb. of wheat would be required to be ground daily.

2. I have ascertained from Messrs. Richardson and Cruddas, Agents to Messrs. Clayton and Shuttleworth, Millwrights, England, that their firm have now some small mills with 36-inch stones capable of turning out 120 lb. of flour per hour, and that the average power to turn this and the dressing machine is only 3-horse power, price in Bombay, including small dressing machine, Rs. 1675.

2. The Commissary-General will be requested, in the Military Department, to ascertain by experiment whether it is possible to store flour at Wellington, as suggested by the Executive Engineer.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle.
" Military Department.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated April, 24th.

Read. *Encl.*

G.O., 24th April 1885, No. 978 W.

APRIL.

Wellington Bakery

Instructions for commencement of — on the site selected near the bazaar.

531/33

3RD OCTOBER 1885, No. 2296 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following letter from Colonel B. H. W. MAGRATH, Commissary-General, to the Secretary to Government, Military Department, dated Madras, 18th September 1885, No. 3492 :—

With reference to clause 2 of Proceedings of Government in the Public Works Department, No. 978 W., of the 24th April 1885, I have the honor to report the result of the experiment made as to the keeping qualities of bread-material at Wellington.

2. The Superintendent of the Government Bakery, Madras, was ordered to prepare a bag of bread-material, and was instructed to be most careful to see that the wheat was not damped, as it is usual to do when the flour is required for immediate use.

3. I inspected this material on the 19th June and found it a little darker in color than bread-stuff made from damped wheat, but in every other respect the quality was unexceptionable.

4. This bag was then forwarded to the Executive Commissariat officer, Wellington, whose report, with a sample loaf of bread, has just been received, and proves that, after the bread-material has been kept for fully three months in the climate of Wellington, excellent bread may be made of it. The loaf is slightly darker than usual, but it is in other respects fully equal to bread made of bread-material, in the preparation of which the usual damping process has been used.

No. 5223, Military.

Transferred to the Public Works Department.

(By Order.)

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Offg. Secretary to Government.

22nd September 1885.

ORDER—dated 3rd October 1885, No. 2296 W., Public Works.

Communicated to the Superintending Engineer, IV Circle, with advertence to G.O., No. 978 W., dated 24th April 1885.

2. The further necessary orders will issue in the Military Department, relative to arrangements being made by the Commissariat Department, after the bakery has been brought into use, for storing a sufficient quantity of flour to last through the dry months whenever there may be reason to anticipate that the water-power will fail during that period.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle.
„ Military Department.

Exd. J. Henricus.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated October, 3rd.

Recd. *Encl.*

G.O., 3rd Oct. 1885, No. 2296 W.

OCTOBER.

Wellington Bakery

Orders on letter from the Commissary-General reporting the result of the experiment made for the storage of materials for bread-making in connection with the water-power for working the ——.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following letter from Major D. J. S. McLEOD, Deputy Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 27th October 1885, No. 3714 A:—

I have the honor, by order, to forward, for sanction and transfer to the Public Works Department for disposal, the estimate, &c., below-mentioned, which have been approved by the Provincial Commander-in-Chief. The estimate has been countersigned:—

Revised estimate, amounting to Rs. 594 (with a comparative statement), for constructing a dam across the Kancanthooray river at Wellington for the purpose of gauging the water available for the Wellington bakery.

2. The original estimate, amounting to Rs. 440, was sanctioned in G.O., No. 3147 W.,* of 20th December 1884, and the excess of the present estimate is reported due to laying a depth of cement concrete 1 foot 6 inches as foundation, and also to the raising of two platforms on either side of the weir to enable persons to register the water passing through.

* M.D. No. 12 of 5th January 1885.

No. 6000, Military.

Approved and transferred to the Public Works Department for disposal.

(By Order.)

FORT ST. GEORGE,
29th October 1885.

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Offg. Secretary to Government.

ORDER—dated 5th November 1885, No. 2603 W., Public Works.

The revised estimate, amounting to Rs. 594, for constructing a dam to gauge the water-power available for the Wellington bakery, is sanctioned in supersession of the estimate of Rs. 440 sanctioned in G.O., No. 3147 W., dated 20th December 1884.

2. This sanction has been registered as Imperial, Ordinary, No. 48 W. of 1885-86, and classified as Military, Original Works.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with one enclosure.
" Examiner, Public Works Accounts, with the estimate for note and return to Superintending Engineer, IV Circle.
" Military Department.

Exd. J. Henricus.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1885} Madras.

PUBLIC WORKS

Dated November, 5th.

Read. *Enc*

G.O., 5th Nov. 1885, No. 2603 W.

NOVEMBER.

Wellington Bakery

Revised estimate for constructing a dam to gauge the water-power available for th —, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 14th January 1886, No. 15 E.W.

In forwarding the statements of savings and demands under the heads Imperial and Provincial, I have the honor to request you will be good enough to intimate your approval of the whole or any portion *by telegram*, so that arrangements may be made to utilise the grants before 31st March next.

ORDER—dated 18th January 1886, No. 152 W., Public Works.

The following sums are resumed and added to the Provincial reserve with the Government :—

		Rs.
1.	District munsif's court at Ottapálam	300
2.	Improvements to road from Calicut to Vayitri	25,000
3.	Repairs, Communications, Coimbatore division	108
4.	Tools and plant, Coimbatore division	110
	Total ...	25,518

2. The following appropriations are made from the Provincial reserve with the Government :—

		Rs.
1.	Improvements to the Collector's office at Mangalore	2,500
2.	Improvements to the tahsildar's office at Putúr	107
3.	Purchase of Rowe's bungalow at Devála and converting it into a police station and ten police huts, and constructing five additional huts	4,500
4.	Alterations to the tahsildar's office at Mangalore	595
5.	Temporary establishment for surveying the proposed cart-road from Salem to Yercaud	500
8.	Sholadi bridge	3,000
9.	Widening the ghât road near the Craigmore toll bar	1,000
	Total ...	12,202

3. The Superintending Engineer applies for an allotment of Rs. 13,316 for the proposed new office for the Collector at Calicut, but as plans and estimates for the work have not yet been sanctioned, the amount has not been granted.

4. The following transfers of funds under Imperial, Military, are sanctioned :—

From	Rs.	*To*	Rs.
Original Works.		Original Works.	
Bakery at Wellington	4,300	Putting the Cannanore fort into a state of defence	1,802
Fixing iron dampers to the ovens of the Government bakery at Cannanore ...	566	Improving the hospital and nursery dormitories, male and female branches of the Lawrence Asylum, Ootacamund	1,700
Repairs.		Converting the old cells in the Cannanore fort into a double magazine and treasure-room and fixing lightning conductors	420
Repairs, Coimbatore division	1,700	Improvements to the rest-house at Pódanúr	150
		Minor works, Nílgiri division ...	1,631
		Do. Coimbatore do. ...	250
		Do. West Coast do. ...	613
Total ...	6,566	Total ...	6,566

5. A sum of Rs. 100 is allotted to the Coimbatore division under Imperial, Civil Buildings, Postal, Repairs, from the reserve with the Government under that head.

6. With reference to the application for funds for the post office at Salem, the attention of the Superintending Engineer is drawn to paragraph 4 of G.O., No. 2564 W., dated 2nd November 1885.

7. The following telegram will be sent to the Superintending Engineer, IV Circle :—

"Your No. 15 E.W. of 14th. Transfers under Provincial, except Collector's office, Calicut, under Military to the extent surrendered, and under Imperial, Civil Buildings, except post office at Salem, sanctioned."

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle.
" Examiner, Public Works Accounts.
" Judicial Department.
" Revenue do.
" Financial do.
" Military do.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated January, 18th.

Recd.

Encl.

G.O., 18th Jan. 1886, No. 152 W.

JANUARY.

Funds

Orders on letter from the Superintending Engineer, IV Circle, surrendering certain—.

Public Works Department, 1884-85.

Current No. 10389.

Letter No. 543 S.E.N.

Dated the 13th December/84

From the S.E.N. Circle

NOTE OF REMARKS.

1. The accompanying is a Schedule contract entered into between Messrs. Graves and Co., Ashley Works, Coonoor, and E.E. Nilgiri Division, on account of the Government of Madras, relative to the construction of a bakery at Wellington, the estimate for which was sanctioned vide G.O. No. 1838 W. of the 29th July 1884.

2. All the necessary documents have been submitted, and in correct form.

18th Dec/84
BH

Fourth Circle.

No 459

Nilgiri Division.

Report of Contracts exceeding Rs. 500 each entered into by the Executive Engineer Nilgiri Division.

Name of work.	Amount of Estimate.	Nature & amount of Security offered.	How per-cent from all payments to the Contractor to form Guarantee fund.	Forfeiture of the whole or part of the Guarantee fund	Date when which the work is to be commenced.	Date when completed.	Name of Contractor	Remarks.
Constructing a Bakery at Willington	32000	—	10	—	20 March 1886	—	Messrs Graves & Co.	The payments previous to the 16th of the P.W. Code were prepared & shown to the Contractor. Accepted with reference to Superintendent's No. 540 of 84 dated 17th November 1884 forwarded.

No. 543/811

Forwarded to the Chief Engineer, P.W.D. for approval.

Ootacamund
8th December 1884

Combatore
13th Dec 1884

L. Beatty.

A. Smith Major R.E.
Executive Engineer.

Go. A No. 1838-W / 1839 a/29.7.84

Memo No. 1162 a/9.6.84

Approved

Cy. 18.12.84

To The A.G.W. Circle with 5 enclos

535/69

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

17 September 1884, No. 469.

Commissariat Department—Contracts.

Read the following paper :—

No. . *From Colonel B. H. W. MAGRATH, Commissary-General, to Lieut.-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Madras, 4th September* 1884, *No.* 3136.

Government in Order, No. 5600, of the 25th October 1881, directed me to arrange for a three years' contract for the supply of bread to the British troops at Wellington, and a tender for the same, from 1st April 1882, was sanctioned by Government in Order, No. 102, of 10th January 1882.

2. The contract will expire on the 31st March 1885, but previous to soliciting the orders of Government as to the terms on which the next contract should be made, I directed the Executive Commissariat Officer, Wellington, to ascertain from the Executive Engineer when it was likely that the new bakery sanctioned by Government in Order, No. 1838-W., Public Works Department, would be ready.

3. The Executive Engineer in his reply, No. 559, of the 29th August (copy annexed), states that "it is impossible to say when the bakery will either be commenced or completed and in working order," and as this opinion has doubtless been given with the knowledge that funds had been specially asked for as noted in para. 3 of the order above quoted, I conclude that I must infer that the proposed appropriation of 5,000 rupees has not been sanctioned.

4. I would here note that the fact that the machinery has not been yet arranged for, need not be allowed to delay the construction of the building itself when funds can be made available, because the contractor can be bound to prepare his bread in the Government building under proper supervision which would be far preferable to the present arrangement under which the bread is made in a private bakery in the bazaar.

5. I would also suggest, with reference to the Executive Engineer's doubt about the sufficiency of the water power, that this question (which would appear to admit of easy solution) should be at once decided, and that, in accordance with the opinion arrived at, I should be authorized to indent next year for either steam or water power machinery, as may be found most suitable.

6. In the present state of uncertainty, I beg to suggest that an annual contract be invited, renewable on three months' notice up to a limit of two years, the contractor being required to prepare the bread for the troops in the new building on receiving notice that it is ready for occupation.

From Major A. C. SMITH, R.E., Executive Engineer, Nilgiri Division, to the Executive Commissariat Officer, Wellington; dated Ootacamund, 29th August 1884, No. 559.

In reply to your No. 1265, dated 27th August 1884, I regret that I am unable to comply with your request. No funds have yet been allotted for the bakery, and the sanctioned estimate only allows for the mere building without machinery, and as water power is doubtful, it is impossible to say when the bakery will be either commenced or completed and in working order.

B.

Forwarded.

5th September 1884. (Signed) C. CARTER, Colonel,
Controller of Military Accounts.

No. ORDER THEREON, 7 September 1884, No. 4607

Sanctioned as suggested in para. 6.

2. The questions of the provision of funds for the new bakery at Wellington and the sufficiency of the water power available for the machinery will be considered in the Public Works Department.

(True Extract.)

A Kennedy Herbert Lt.-Col.,
Offg. Secretary to Government.

To the Commissary-General.
" Controller of Military Accounts.
" Public Works Department.

Exd. P. L. Pereira.

G.O. 1839-W 29-7-84
" 2663 W. 22.9.84.

Govt. of [1884] Madras.

MILITARY.

To THE COMMISSARY-GENERAL,
&c., &c., &c.

SECRETARY TO GOVT. MILY. DEPARTMENT
18 SEP 84

Dated September,

Issued

Recd. 22/9/84 *Encl.*

G.O., September 1884, No.

B
c/o 2440-41 R By 2nd Sept 84

SEPTEMBER.
Nos. — .

**Commissariat Department—
Contracts.**

Wellington.—Proposal of the Commissary-General to invite an annual contract for the supply of bread to the British troops at —, sanctioned.

Mil 2719

Ja 10

G.O 4607 d/17.9.84 (Mily). 535/82

It is understood that a complete Statement of requirements under Military works is being prepared at Madras for submission to the Govt of India. This demand might be brought forward again in connection with the Statement in question?

K.S
19.9.84

Res. WS
19.9.84

DW thinks that as the G. of I. have already been asked to allot funds for the Wellington Barracks, and the Inspector General knows well what is immediately wanting, the Paper had better be disposed of at once

Cs
24.9.84

S. Ow
19/9/84

L.D. 1839-W.y 29-7-84
" 2663 W.D. 22.9.83.

L. W. Deptt.

535/83

Copy: of the Madras Govt:
Endsm: date the
Read the following:-
Copy: of the Mily Deptt:- (H.S. No: 4607 A/17th Sept 1883)

The question of an allotment of funds for the Wellington barracks was referred to the Govt: of India in Proceedings No: 1838 W dated 29th July 1884, to which no reply has yet been received

2. The Supdg. Engr. will advance investigate the question as to water powers,

O.S. 27/9

(M.E. No 4/) To The Secy to the Govt of India Milty: Dept.

Sir,

I am directed to request the favour of an early reply to this department endorsement No: 1839 dated 29th July 1884, asking for a reallotment of the sum of Rs 5000 entered in the preliminary scheme of the Madras Milty: Works budget for 1884-85 for the battery at Wellington, but disallowed by the Govt of India, pending sanction to a plan and estimate.

To The Secy to the Govt of India Milty: Dept.

Sir,

I am directed to request the favour of an early reply to this department endorsement No: 1839 dated 29th July 1884, asking for a reallotment of the sum of Rs 5000 entered in the preliminary scheme of the Madras Milty: Works budget for 1884-85 for the battery at Wellington, but disallowed by the Govt of India, pending sanction to a plan and estimate.

I am further directed to request that the Commissary General's letter No 3136 dated 4th September 1884, and enclosures may be returned to this office with the least possible delay.

I have the honour to be
Sir
Your most obedient servant
Secretary to Government

No 1905 535/88 Nilgiri Division Office

Ootacamund 20th October 85.

From

The Executive Engineer

Nilgiri Division

To.

The Superintdg. Engineer

Circle

Sir,

I have the honor to bring to your notice that the Estimate for the Bakery must be exceeded and that if the work is to be completed this year a further allotment of some Rs. 10,000 will be required.

2. The main excess is on the machinery. I do not know how the sums in the sanctioned Estimate were determined but they appear to have been taken from Colonel Mapaths letter No 1445 of 23rd April 1884 Circulated with G. O. No 1838 W of 29th July

July 1884 paid they are as follows: viz –

Water Wheel ——————— Rs2000
Two flour mill (2 Stories) " 2300
Dam & Mill race ——————— " 2500.

Total Rupees 6800.

3. Now besides the above named sums per is inadequate in themselves for the purchase of Machinery and construction of the dam and Mill race, I have to observe that many necessaries are quite unprovided for as will be seen from the following list. The prices I have here quoted for Machinery are the lowest I can obtain on English prices with Rupee Equal 5/-6d. plus the probable expense of friend commission Etc.

The price of the Kneading Machine I am somewhat doubtful of but I have put it down in the Estimate. Also the dam and Mill race I have allowed in the lump as owing to a solid

solid bed of rock having been met as you saw at last visit just at the site of the well for water-Wheel and also owing to the duct having to be built of solid masonry both at the head and tail of the race it is difficult to say exactly what the cost will be. but to be on the safe side I have put it @ Rs1000/ over the figure quoted above.

4. The various Excesses will be as under. viz:–

Water wheel complete with Counter Shaft	3280
Grinding mills do with Elevator & Dresser. ——	3400
Shafts, Couplings Pulleys Etc ———	386
Belting for all complete ———	240
Sluice for regulating overflow ——	250
Freight to Madras from London —	13/14
Commission on Landing Etc ——	428
Erection @ 10 pr cent ———	858.
Landing Agency & Carriage up Shaft –	1000.
Bed plates for wood work ——	438
Kneading Machine with bullock gear & Duty	1500
Dam & mill race Duty ——	3500
Total	15154
Sanctioned Amount ——	6800
Probable Excess–	Rs8354

or say Rs 8500/- To this maybe
added over Rs 1500 for several small cases
owing to recent alteration in plan
vide my No 1012-910 fd. so that a total sum
of Rs 10000 maybe anticipated.

5. I may mention that I am
in treaty with two firms for the delivery
& erection of the machinery but I
have not yet received replies to some
of my queries so at present I can-
not decide exactly as to the ulti-
mate cost but the above figures
are near enough for all practi-
cal purposes.

6. If the amount cannot be pro-
vided this official year the only plan
will be to let the present Contractor
proceed to complete the work &
await payment of the balance till
the next. An arrangement to this
I have no doubt they would agree

SUPG. ENGINEER'S OFFICE
No.
22 OCT 85
P. W. D.
FOURTH CIRCLE

I have the honorable
Sir
Your most Obed. Servant.

A Smith Major RE
Executive Engineer

No. 428
Dated
Forwarded to the Chief Engineer,
Public Works Department for favor of
orders.

2 It is hoped that Government
will be able to allot additional funds
from the surrenders already made; if
not, sanction is solicited to complete
the work without interruption; on
condition that payment may be
made early next official year.

Wm Thompson Colonel RE.
Supg. Engineer 4 Circle

Camp Cuttack
23. 10. 85

SUPG: ENGINEER'S OFFICE
NO. 85 bet. 1.
22 OCT. 85
P. W. D.
FOURTH CIRCLE

From
The Executive Engr.
Velgam Divn.

No. 1905
Dated 20th
Despd 20th } Octbr 85.

Memorandum

Wellington Bakery
Reports that the Estimate for — will be exceeded and states that allotment of Rs 10000/- will be required to complete the — within the Offl. Year.

Rec. 9345

From

The Offg. Supg. Engr:,

Fourth Circle.

Dated 23 2nd Octr: 185.
Desp. 26

No. 428
Gen.

Bakery at Wellington.

Forwarding for favr of orders, letter from the Executive Engineer Nilgiris Divn, stating, that the estimate for the — will be exceeded; and that an allotment of Rs. 10,000 will be required to complete the work within the official year.

Rd/

No. 2646 53/50

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the Novr 4th 85

READ the following

Letter from the Officiating Supdg Engineer IV Circle, No. 428 EW dated Octr 23rd 1885

The Government to regret much regrets that the estimate for the Wellington bakery is likely to be so largely exceeded. A revised estimate should be submitted for consideration with the least possible delay.

2. There is no probability of additional funds being available during

the current official year and the question of allowing the contractors to complete the work in anticipation of payment appears to be irregular; but the matter can be dealt with by the Supdg Engineer on his own responsibility.

connected with question of fin

4-11-83

S.E. IV Circle

Dft/C
7/11

INDIAN TELEGRAPH.

Local No. 07367

To (Station) biplicane

From (Station) 5/5 Manjalore

Words.	Day.	Hour.	Minute	Official Instruction.
30/4	4	16	31	depd

To (Person) Madras

From (Person) Supdg Engr

Works Chepauk madras.

1 Nilgiri division surrenders
2 2500 rupees on wellington
3 bakery and proposes transp
4 that sum repairs military
5 Lawrence asylum roofs is
6 this approved
7
8
9
10
11
12
13
15

Recd. from	L. N	Sent to	L. N.
At Hrs.	Mts., By	At Hrs.	Mts., By

Date

B. Ellis, G P G I S P—9 P—No. 409—14,000,000—2-84.

MADRAS 4 5 86

Telegraph Master

Dft/W 6-3-86

No 598 W.

535/12

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

March 5th 1886

READ the following

Telegram from the Supdg. Engr. IV circle dated 4th March 1886.

The following telegram will be sent to the Govt. of India, Military Department:-

"Please give sanction to transfer of Rs. 2,500 from Wellington Bakery to Military Repairs."

Tel. dispd 5/3

5/3/86

5.3.86

To The Supdg. Engr. IV circle
" Examiner of P. W. Accts

Draft 6-3-86

Maj

No 3467 Commissary-General's office

Class. AS | INDIAN TELEGRAPH. 53/53 | Local No. 04061

To (Station)	From (Station)
Madras	Calcutta

Words	Day.	Hour.	Minute.	Official Instruction.
23/8	12	17	34	Urgent

To (Person)	From (Person)
Madras Works	Priddy

364 m- w- your
5- march transfer of
rupees 2500 from wellington
battery to military repairs
sanctioned +

Rcd. from	L. N.	Sent to	L. N.
Hrs.	Mts., By	At Hrs.	Mts., By

Date

Telegraph Master

B. Ellis, C P G I S P—S P—No. 4001—11-10-[illegible]—2-12-84.

MADRAS 12-3-85

30 - Macintyre

J Hamilton Wilcocks

Communicated
to the S. E. IV Circle
and the Examiner
P. W. Accounts,
in Continuation of
G.O. No 595 W of
5th March 1886.

13/3/86

13-3-86

To the S. E. IV Circle
and Exr P. W. Accts

No. 2467 Commissary-General's office
Madras 27th July 1885.

595/54

From,

The Commissary General,

To,

The Superintending Engineer,
Fourth Circle,
Coimbatore.

Sir,

No. 206/m. I have the honor to return the plan and letter from Executive Engineer received under cover of yours of the 18th July. I have approved of the plan as I consider the rooms are much more conveniently arranged than they were on the original design.

I have &c.

(Signed) B. H. W. Meagrath Colonel
Commissary General.

(True Copy)

L. Beatty Colonel RE
Superintending Engineer.
Fourth Circle.

30th March 86

Supg: Engineer's Office, 4th Circle.
Coimbatore, 30th March 1886.

No 105
Encl.

535/55

From

The Superintending Engineer,
Fourth Circle.

To -

The Chief Engineer,
P.W. Department,

Sir, thro: the Commissary General

Enclosures 12.

8 Plans
1 Revised estimate
1 Comparative statement
1 General Abstract estimates (Duplicate)
1 Copy of commissary General's letter No 2467 of 21st July 1885.

I have the honor to submit herewith a revised estimate of Rs: 44,950 for the Bakery at Wellington, and the following statement shows at a glance the cause of the excess of Rs: 12,950 :-

Particulars	Original Estimate	Revised Estimate	Difference
Main Building	24,440	24,770	330
Latrine	760	870	110
Dam and Mill race	2,500	3,500	1,000
Machinery	4,300	14,500	10,200
Road of approach	"	1,000	1,000
Temporary sheds	"	310	310
Total	32,000	44,950	12,950

2. The

2. The Outlay on the Bakery up to end of this month will be Rs: 25,200, and out of the balance of the revised estimate, Rs: 14,500 is wanted for machinery; Rs: 3,000 for completing the dam and Mill race; and Rs: 1,000 for a road of approach; and I have directed the Executive Engineer not to proceed with these items, the total cost of which is Rs: 18,500, pending sanction to his revised estimate.

3. I have to point out that in the letters of the Commissary General, copies of which were forwarded with your Memo: No 116 E of 9th May 1874, it was directed that the following entries should be made in the Bakery Estimate:-

Water wheel	Rs: 2,000
Flour Mill	" 2,300

and that the estimate was to be submitted for the approval of Government leaving out any mention of the necessary machinery which can hereafter be

be considered." 53/56

4. It will be observed that the Executive Engineer's estimate of machinery is briefly as follows:-

		Rs:
I.	Water wheel complete with countershaft	3,280
II.	Grinding Mill with Elevator, Dresser, Couplings pulleys, hangers and belting	4,026
III.	Kneading machine with bullock gear complete	2,500
IV.	Bedplates for woodwork	438
V.	Cast iron sluice for regulating overflow	250
VI.	Freight, commission landing charges, carriage up ghat, and erection	3660
VII.	Unforeseen Contingencies	346
	Total Rs:	14,500

5. The sum entered in the original estimate for machinery was, as explained in para 3, Rs: 4,300. On careful enquiry, the

the Executive Engineer finds that the machines which the Commissariat Department require would cost Rs 14,500. The question of machinery therefore should now be reconsidered and settled.

6. If it should be decided not to purchase machinery and work the bakery without it, as at Cannanore, it will be useless to complete the dam and Mill Race. In that case the Bakery would cost as follows:—

Main Building	Rs: 24,770
Latrine	870
Temporary sheds	310
Outlay to date on dam & millrace	500
Roads of approach	1,000
Total Rupees	27,450

The difference Rs: 17,500 between this sum (Rs: 27,450) and the revised estimate (Rs: 44,950) would be made up of

Rs: 14,500 for machinery and
" 3,000 for completing dam and mill race.

J.

× Rs: 310

7. I have only further to state that the temporary sheds have been entered as a separate sub head of the revised estimate, because it is understood the Commissariat Department would prefer to keep them; otherwise they may be pulled down and the materials sold.

8. The omission of any provision in the original estimate for a Road of Approach was an oversight; a detailed estimate for one is now provided.

9. The original estimate of the Bakery amounting to Rs: 32,000, was sanctioned in G.O. No: 1838 W of 28th July 1884.

10 The Bakery has been built on a revised plan, approved by the Commissary General in his letter No: 2467 of 21st July 1885, copy of which is herewith. Ten copies of the original and revised plans accompany this letter.

J

I have the honor to be,
Sir,
Your most Obed[t]. servant.
L. Beatty - Col.; R.E.,
Dup[y]. Engineer, 4[th] Circle.

From

The Supg. Engineer,

Fourth Circle

Dy 14
1-4-86

To

The Chief Engineer,

P. W. Department.

Dated 30th ult.
Despd: 31st } March 1886.

No. 105
Encl: 12.

Bakery at Wellington

Submitting a revised estimate of Rs: 44,950 for the —.

5 35
5

Local No. 1334.

COMMISSARY GENERAL'S OFFICE,

No. 112. Madras, 5 April 1886.

FROM, Col. H. P. Hawkes.

Offg. ~~The~~ COMMISSARY GENERAL,

TO,

THE SECRETARY TO GOVERNMENT,

MILITARY DEPARTMENT,

FORT SAINT GEORGE.

SIR,

with 8 plans

In transmitting letter No 105 of 30 March from the Superintending Engineer 4th Circle, I have the honor to offer the following remarks:—

2. The Wellington Bakery is now complete with the exception of some additional work to the mill-race and a road of approach — the estimated cost of both these works is Rs: 4,250.

3. I trust that this amount may now be sanctioned so that the building may be quite ready for the mills when they arrive from England.

4. The machinery remains to be —

provided

provided for. Our requirements will be as follows. the cost will be a home charge.

1 Water wheel (Sup.o Engineer Estimate) Rs. 3280.

1 Flour mill 2 stones including improved dresser and packing and freight £280 @ 1/6 = 3733

5. My estimate of the probable cost of the mill is framed from that actually paid for 3 similar mills procured for stations in Burmah. The increase over the original estimate alluded to in para 3 of the Superintending Engineer's letter is due to the necessity for providing an improved dressing machine, those sent with our first mills not being quite suited to the climate and material. I have omitted the kneading machine because I am in hopes that a suitable machine for kneading native bread may be contrived and made up locally.

6. As all indents for flour machinery have hitherto been submitted by this department, I have the honor to request instructions whether this course is to be followed in the present case. It will probably save some time, and now that the building is finished it seems most desirable to complete it with machinery so that we may be prepared to carry out the bread supply to the troops when the present contract expires viz on the 30th September next.

I have the honor to be,
Sir
Your most obedient Servant
[illegible] Colonel
Commissary General (Offg)

P.S. 1-4-86- 10/11 R

No 67997 13.3.86 to 21721 20.12.84
" 67528 26.3.86 " 5714 8.1.85
" 22128 10.8.83 " 9678 26.1.85
" 22639 22.9.83 " 11296 3.10.85
" 35548 31.3.84 " 2603 5.11.85
" 18394 24.7.84 " 2464 7.11.85
" 25869 22.10.84 " 1524 15.1.86
" 26648 29.10.84 " 5964 5.3.86
" 34477 28.11.84

No 2212 transferred to the Public Works Dept. with reference to Govt. of Govt. No 820-W dated 26 March 1886.

It seems desirable that the Commissary General should undertake on the Govt. to state for the machinery required; but there is no objection to the Supdt. P.W. Stores doing so, if delay would thereby be avoided and the indent be prepared in communication with the Commissary.

(Signed)
Attorney Herbert
Secretary to Govt.
8 April 1886

Agd 27/4
A. 15th 8/5

July - 86 - Dept S

No 117
Dated 5 April 1886
Recd 5

From Col. H. P. Hankin
Offg Commissary General,
Madras,

To
The Secretary to Government,
Military Department.

No. 117.
Enclosures. 35

Requests instructions whether certain course is to be followed in connection with Bakery at Wellington.

Note (1) 53/1

The letter from the Commissary General is not at all clear & does not appear with that of the S.S. No 105/2W 26th January In this para 4 he says that the machinery remaining to be taken out does not include any steam pipes of the S.S. & the pipes are also shorty different. As said in para 5 he says that the vacuum and the vapour is due to the necessity for providing an exhaust steaming machine: but the vacuum is due to many causes & the machine vacuum is had of a steaming machine. The

Sorii

531/63

Please ascertain the received estimate as early as convenient the matter is of some urgency. The requirements of the County Council in the way of machinery do not seem to agree with the list given in S. E's letter.

HB

12/4/86.

Law

Please see D.W's note —

BA

12/4/86

3. Further in accordance with the principle laid down in Rly. Mng Dept Sft 2 Feby 1915, No 610, the machinery, should be procured & erected by the Commercial dept, & the object and efficiency be passed by the P.W. dept in bearing for the Commercial Engineers will therefore be forwarded to the Supply Section in view to their attending to having received an Engineering Course & practical training with former Officers of the Engineering Branch interested estimates Plans & records will then be made

direct, carried out
or take carried out
by the Ord Dept,
omitting all machinery
& be obtained from
or otherwise
England by the
Comm't Dept. Orders
or the latter part
will issue in the
Mil'y Dept.

4 We shall have
with which to meet the
revised estimate
with the least possible
delay.

To Mr. S. D. Lucke
with 12 enclos
in Mil'y Dept
(Mr Secy Mil'y Dept
for two of enclos

Read Sir's letter
Comm'y Gen's letter
Mil'y Dept encl's

53/55 Memo.

The letter from the Commissary General is not at all clear, and does not agree with that of the Superintending Engineer's No. 105/Cw. of 30th March 1886. In his para 4 the Commissary General gives the machinery remaining to be provided, but this does not include many items shewn by the Superintending Engineer and the prices are also slightly different.

2 Again in para 5 he says that the increase over the original estimate is due to the necessity for providing an improved dressing machine, but the excess is due to many causes and no mention whatever is made

made of a dressing machine. The Commissary General also states that he has omitted the kneading machine, as one may perhaps be made up locally. He has not countersigned the revised estimate.

2. In these circumstances the correspondence and enclosures are forwarded to the Superintending Engineer IV Circle in view to the estimate being revised (in communication with the Commissary General) so as to meet the requirements of the latter officer.

Lr
12/4/86

(1)

Revised draft

Memorandum

Unrecommended

19/4/86

To The Supg. Engr. IV Circle with enclosures.

P. W. D.

No. 53 Dated 13th April 1886.

Memorandum.

From the Supt. Engineer, IV Circle No. 105 Ests dy 30-3-86
" Commissary General No. 112. d/ 6-4-86
End. thereon in the Mobilising Deptt. No. 2222 dy 8-4-86.

The letter from the Commissary General does not agree with that of the Superintending Engineer's No. 105 Ests of 30th March 1886. In his para 4, the Commissary General gives the machinery remaining to be provided, but this does not include many items shewn

by the Superintending Engineer as necessary; which and the prices are also slightly different.

2 Again in para 5 the Commissary General says that the excess over the original estimate is due to the necessity for providing an improved dressing machine; but represented by Ex. E. to be that excess is due to many causes, and makes no mention whatever made of a dressing machine. The Commissary General also states that he has omitted the kneading machine, as one may perhaps be made up locally. He has not countersigned the revised estimate

3 Further, in accordance with the principle laid down in P.G. Military Department, dated 5th February 1885, No 610, the machinery should be procured and set up by the Commissariat department; and no object will apparently be gained by the P.W. Department indenting for it. A copy of the Commissary General's letter and the enclosures will therefore be forwarded to the Superintending Engineer with the plans & estimates, letter in view to the estimate being revised in communication with the Commissary General. the former officer. The revised estimate should provide only for work already carried out, or to

or to be carried out by the P.W. Department, omitting all machinery to be obtained from England or otherwise by the Commissariat Department. Orders on the latter point will issue in the Military Department.

4 The Superintending Engineer will submit the revised estimate with the least possible delay.

14.4.

14.4.86.

Sd/ [illegible]

6/15.4.86.

No. 38 Dated April 1886

Despd 20/4

To
The Supdg Engr 11 Circle
with 12 enclosures.
Military Depot

(The Secretary, Military Depot. for favor of communication.)

No. 1528 W dated 17-6-86
- 38 D - 20-4-86
& the file

1886.

P. W. DEPARTMENT.

Current No. 8247

From The Mily: Dept.

ENCLOS.—

No. 6609
Dated 21st October 1886
Received 22d ——"——

SUBJECT.

Transferring letter from the officer in charge of the Commissary-Generals' office requesting early attention in repairing the defects of the Govt Bakery at Wellington —

DISPOSAL.

No. 3785 Dated 23d Oct 1886

Referred to the Supdg Engr IV Circle for immediate report and for submission of an estimate for the requisite alterations.

(Sd) J. O. Hastel, Col. RE
Secy. to Govt. P. W. Dept.

To S.E. IV Circle
Dept 23-10-86

535/69

17TH JUNE 1886, No. 1528 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers:—

From the Superintending Engineer, IV Circle, dated 1st April 1886, No. 112 E.W.

From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 29th May 1886, No. 183 E.W.—Through the Commissary-General.

I have the honor to resubmit the revised estimate of the Wellington bakery, corrected in communication with the Commissary-General, as directed in paragraph 3 of your memorandum, No. 38 D., of 20th April 1886.

1 Plan of bakery, dated 20th January 1886.
1 Do. as approved by the Commissary-General.
1 Plan showing the positions of machinery.
1 Do. as originally sanctioned.
1 Do. of dam.
2 Sheets of cross sections.
1 Site plan.
1 Estimate.
1 Duplicate abstract estimate.
1 Comparative statement.

2. With the consent of the Commissary-General all provision for machinery has been omitted and a round sum of Rs. 1,000 substituted to meet the cost of fitting up machinery, which will be purchased and delivered at site by the Commissariat Department.

3. The revised estimate now amounts to Rs. 31,450; which is less (by Rs. 550) than the original estimate. The following comparative statement shows the principal items as originally estimated and as now revised:—

—	Original estimate.	Revised estimate.	Difference.	
			More.	Less.
	Rs.	Rs.	Rs.	Rs.
Main building	24,440	24,770	330	...
Latrine	760	870	110	...
Dam and mill race	2,500	3,500	1,000	...
Machinery	4,300	...	...	4,300
Fitting up machinery	...	1,000	1,000	...
Road of approach	...	1,000	1,000	...
Temporary sheds	...	310	310	...
Total ...	32,000	31,450	3,750	4,300

4. The outlay up to 31st March 1886 was Rs. 24,048, and the allotment required for 1886-87 will be Rs. 7,402.

5. I request permission to proceed at once with the completion of the dam and mill race and road of approach.

Endorsement on the above.

No. R. 53.

Forwarded.

2nd June 1886. (Signed) H. P. HAWKES, Col.,
Officiating Commissary-General.

ORDER—dated 17th June 1886, No. 1528 W., Public Works.

The revised estimate, amounting to Rs. 31,450, for constructing a bakery at Wellington, is sanctioned in supersession of the estimate of Rs. 32,000 sanctioned in G.O., No. 1838 W., dated 29th July 1884.

2. The question of providing funds for the completion of the building will be considered in connection with the demands on the reserve on account of incomplete works.

3. This sanction has been registered as Imperial, No. 12 W. of 1886-87, and classified as Military, Original Works.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with ten enclosures.
" Examiner, Public Works Accounts, with duplicate abstract estimate.
" Military Department.

Extd. E. Fernandez,
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated June, 17th.

Read. *Encl.*

G.O., 17th June 1886, No. 1528 W.

JUNE.

Bakery at Wellington

Revised estimate of Rs. 31,450 for constructing the — sanctioned.

No. 112
Encl.

535/87

From,

The Superintending Engineer,
Coimbatore. 1st April 1886.

The Superintending Engineer,
Fourth Circle.

To,

The Chief Engineer,
P. W. Department.

Sir,

With reference to G. O. No. 823 dated 26th ultimo, I have the honor to report that the revised estimate of the Wellington Bakery was forwarded to you, through the Commissary General, on the 30th ultimo.

2. As all mention of machinery was omitted, under special instructions of the Military Department, in the original estimate, it is not yet known for certain what machinery the Commissariat Department will decide to have provided.

3. I am, therefore, obliged to await

await your instructions whether
all the machinery provided
in the revised estimate should
be indented for. Meantime
the Indent for it will be prepared

I have the honor to be,

Sir,

Your Most Obt Sv.t,

R. Beatty - Colonel. R.E.

Superintending Engr. &c.

(22)

Rec. 26th

From

The Supg. Engineer,
Fourth circle.

Dated 1st }
Recd: 2d } April 1886.

No. 112
Ed.

Enc:-

Wellington Battery:-

States that the revised estimate of the — was forwarded through the Commissary General on 30th ultimo; awaits instructions as to whether machinery provided in the revised estimate should be indented for.

Returned 11-6-86 (R. 17-6-86.
6-5-6. Pete

No. 183
E.W.

Superintending Engr's office. 4th Cir.
Coimbatore. 29th May 1886.

From,

The Superintending Engineer,
Fourth Circle.

To,

The Chief Engineer,
P. W. Department.

Through the Commissariat General

Memoranda. H.

1. Plan of Bakery dy 20-1-86.
1. Do of do. as approved by the Commissary General.
1. Plan showing the positions of machinery.
1. Plan as originally sanctioned.
1. Plan of dam-
2. Sketch across Sections.
1. Site plan
1. Estimate
1. Duplicate
1. abstract Estimate
1. Comparative Statement.

Sirs,

I have the honor to re-submit the revised estimate of the Wellington Bakery, corrected in communication with the Commissary General as directed in para 3 of your Memorandum No. 38 D. of 20th April 1886.

2. With the consent of the Commissary General all provision for machinery has been omitted, and a sum of Rs 1000 substituted to meet the cost of fitting up machinery; which will be purchased and delivered at site by the Commissariat Department.

3. The revised estimate now amounts to Rs: 31,450; which is less

less (by Rs: 550) than the original estimate. The following comparative statement shows the principal items as originally estimated, and as now revised:-

	Original estimate	Revised estimate	Difference more	Difference Less.
Main Building-	24,440	24,770	330	"
Latrine ____	760	870	110	"
Dam & Mill race-	2,500	3,500	1,000	"
Machinery ____	4,300	"	"	4,300
Fitting up. ____ Do. ____	"	1,000	1,000	"
Road of approach	"	1,000	1,000	"
Temporary Sheds.	"	310	310	"
Total.	32,000	31,450	3,750	4,300

4. The outlay up to 31st March 1886 was Rs: 24,048; and the allotment required for 1886-87 will be Rs 7,402 Rs.

5. I request permission to proceed at once with the completion of the dam and mill race and road of approach.

I have the honor to be
Sir,
Your most obt Servt

L. Beatty Colonel.
Superintending Engr: 4

Circle

Dec. 1653
2/6/86.

G.6-hw 828W 26.3.86
" " 152W 18.1.86
" " 383 20/4/86

157 Wells 4196

From,
The Superintending Engr
4. Circle.
D.1961
T.686
To,
The Chief Engineer
P.W.D.

Through.
The Commissary General.

Dated
Recd } May 1886.

Enclosures. 11

No 183
EW.

Estimate of Wellington
Bakery —
Resubmitting the
revised — amounting
to Rupees 31450.

Resubmitted 11-6-86 R.J. 6-86
a-5-6-86 Ab Asst

C. No. 4196

P. W. Secretariat.

Note by Budget Section.

Work Bakery at Wellington

Remarks and References.

Fund	Imperial Ordinary	
Service Head	Military	
Departmental Head	Original Works	
Amount of Estimate	Rs.	31,450
Expenditure in previous year ...	"	24,074
Allotment in current year	"	-
Balance required to complete ...	"	7,376
Total Rs...		31,450

Note of available funds.

Funds to the extent of the balance of the estimate, Rs. 27,000 were provided during 1885-86 for completing this work. The S.E. surrendered however Rs 6,800 later in the year, vide 6 As noted below*. In the statement of demands for incomplete works of 1886-87 a sum of Rs. 6,100 is now applied for and its provision will be considered with the other demands.

* 152 Wa/18-1-86
679 Wa/13-3-86.

Budget Clerk.
11/6

4196

S K W

Keeps have
a longer nose
for up, & retain
the vapors expired
from body while
the heavy fats
here ~ Cu
9-6-46

B
Today

I Am
The Resurrection

Cuw.

Today

11-6-6

535/28

The Supg Engineer 4th Circle, now submits a revised estimate for the Bakery at Wellington.

The chief difference between this and the original is the omission of Rs 4,300 for machinery and the substitution of Rs 1000 for fitting up machinery, this has been done with the Consent of Commissariat Deptt: who undertake to furnish the machinery and deliver it at site.

There is an excess on main Building, Cutting and Dam and Mill race owing chiefly to increase of rates which cannot be avoided, the saving on the original estimate owing to the omission of the M. machinery amounts to Rs 550. The estimate is sanctioned.

5/6/96

Cus: 4196

Ano: 1528W - 17-6-86

Noted by DO

To W

for one —

Mr Cumpston

Have not received up to

Note thereon but

is proposed to provide

the allotment of

Rs 7400 -

received

in 1886-87

Cu
9.6.86

This should be made

clear.

W
9.6.86

Cus 2603 + 4196

Asst. 29/6.

Asst. 29/6.

Accts 27/6
Despatched 10.6.86
Cus 5-6-86 Returned

Public Works Department.

5 35/29 1528W

Current No. 4196

Letter No. 183 S.W.

Dated the 29th May 1886

From the S. E. W. Circle

Note of Remarks.

(1) The accompanying revised estimate amounting to Rs. 3146 is for constructing a Bakery at Wellington. It was re-submitted by the S.E.W. after necessary correction in Communication with the Commissary General as directed in Para 3 of Memo No 38 D of 25th April 1886 from the Chief Engineer

(2) The revised estimate is less by Rs 550 than the original. The cause of this difference is clearly shown in the Comparative Statement accompanying it.

(3) The S.E.W. in his letter No 183/S.W. of 29th May 1886 states that with the Consent of the Commissary General a round Sum of Rs 1000 is substituted for the Co

cost of fitting up machinery which will be purchased and delivered at site by the Commissariat Department.

The principal items as estimated are.

Grain Building Rs. 24770
Latrine ——— Rs. 570
Dam & mill race — Rs. 3500
Fitting up Machinery Rs. 1000
Road & approach 1000
Temporary Sheds 310

The item in original estimate not brought on & to be used in Machinery Rs 4300. The items not shown in original estimate but now brought on the revised are

Fitting up Machinery - Rs 1000
Road of approach - Rs 1000
Temporary Sheds - 310

The S.E. further states that the outlay up to 31st March 1886 was Rs. 24,048, and the allotment required for 1886-87 will be Rs. 7402.

Requests further permission to proceed at once with the completion of the Dam mill race & road of approach.

535/80

(7) The plan of the building gives full details as to how & for what purpose the different compartments are to be used.

(8) The depth of Dalt in oven floor below fire bricks ought to subject to approval be altered from 1½ inches to 3 inches in depth; as the depth of 1½ inches as allowed in detail estimate is hardly enough to retain heat which is one of the chief points to be gained in an Oven of this description.

(9) The estimate provides for all that is necessary for the work and the plan is well designed.

(10) The wood work for the different description of Roof is of the proper Scantling.

(11) The rates seem fair with the exception of that allowed for fire bricks in clay. In the original estimate it was Rs 50 per 100 cft but the revised has Rs 135 for the same description of work, or almost 3 times the amount per 100 cft

Buildings & Roads
Military Works

No. 1528 W

535/81

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 19 January 1886

READ the following

Letter from the S. E. IV Circle (A. L. No. 112/Ev. dt April 1. 1885)

" " " do (" - 183/Ev. dt May 29 ")

Endt by the Comptr General (" " A/53 dt June 2 ")

The revised estimate amounting to Rs 31,450, for constructing a bakery at Wellington, is sanctioned in supersession of the estimate of Rs 32,000, sanctioned in G.O. No. 1838 W dated 29th July 1884.

2. The question of

too cbf as originally estimated for. The rates for the following items in revised estimate differ to original estimate viz. Not very much in excess Wood orking wood work Rs 3-8-0 instead of 2-8-0 per square-

Brick in Mud Rs 28-0-0 instead of Rs 25-0-0 in lieu of Pointing in Mortar Rs instead of Rs 5 per square.

Asphalting ½ inch thick Rs 50 instead of Rs 37 per Square-

Veneering wood work Rs 3-12-0 instead of 3 Rs-0-0 per cbft

With regard to these excess the Ex. Engineer States that they are due to high tendered rates-

The plans & estimates have been Signed by Officers of the Commissariat Department.

C.O.
4/6/86

Lp 15.6.86

To PW.

7.6.86.

This revised estimate was called for from the Ordy Office - It is required urgently; as the Mily authorities are anxious to close their contract with the local bread supplier. The papers are all at Ootz.

HB.
4 6.6.

providing funds for
the completion of
the building will be
considered in connection
with the demands on
the reserve on account
of incomplete works.

3. This sanction has
been registered as
Imperial No. 12 W of
1886/87, and classified
as Military, Original
Works.

Five dollars
Rec'd 15 June 86
W.C.

J – C.O. 17.6.86

B – S.E. IV Circle,
with 10 enclosures.

Qr M.G. with duplicate of Est.

Military dept
Secret
21/6/86

To, The Secretary to Govt.
Military dept for
countersignature.

W.
14-6-86

Mew
15.6.86

L
17/6/86

Cr
Appd 29/6.

4196 &c

Govt. of 1886 Madras.

PUBLIC WORKS.

17th June 1886, No. 1528 &c

Buttery at Bellary

Revised Estimate for Rs 31,450 for Construction sanctioned

70/4

Appendix to G.O., No. 1595 W., dated 23rd June 1886.

A.—Statement showing amounts applied for and those granted under Imperial—Military and Civil Works.

	Amounts Applied for.								Amounts Granted.							
	Minor Works.				Repairs.				Minor Works.				Repairs.			
	Military.	Civil Works.			Military.	Civil Works.			Military.	Civil Works.			Military.	Civil Works.		
		Postal.	Telegraph.	Salt.		Postal.	Telegraph.	Salt.		Postal.	Telegraph.	Salt.		Postal.	Telegraph.	Salt.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjam ..	..	..	..	..	..	150	..	..	..	..	..	..	..	150	..	..
Rushikulya ..	..	..	..	..	1,000	350	..	..	..	..	..	..	1,000	350	..	..
Vizagapatam ..	600	..	..	..	2,000	300	500	..	..	..	..	..	2,000	300	500	..
Eastern Godávari ..	700	100	..	..	400	200	300	..	..	..	..	..	400	200	300	..
Central do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Western do. ..	..	..	..	..	..	150	250	..	..	..	..	..	..	150	250	..
Eastern Kistna ..	..	..	..	..	..	..	300	..	..	..	..	..	..	..	300	..
Western do. ..	..	..	..	..	..	300	..	..	..	..	..	..	..	300	..	..
Guduvada ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore ..	..	..	..	..	..	388	..	..	..	..	..	..	..	388	..	..
Sangam Project ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Buckingham Canal ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bellary ..	1,000	..	100	..	25,000	200	200	..	25,000	200	..	..	25,000	200	..	..
Cuddapah ..	..	..	..	..	..	200	..	..	..	200	..	..	..	200	..	..
Kurnool ..	..	..	..	..	..	200	..	..	..	200	..	..	..	200	..	..
Nilgiri ..	..	..	..	..	25,000	1,000	..	..	25,000	1,000	..	..	25,000	1,000	..	..
Coimbatore ..	..	..	..	..	4,000	600	..	..	4,000	600	..	..	4,000	600	..	..
West Coast ..	1,000	200	..	..	37,000	500	..	..	37,000	500	..	..	37,000	500	..	..
North Arcot ..	3,500	500	..	..	3,000	200	..	..	3,000	200	..	..	3,000	200	42	..
South Arcot ..	..	..	..	..	200	..	..	..	200	..	..	..	200	..	..	..
Chingleput ..	5,000	..	..	..	30,000	..	..	..	30,000	..	..	..	30,000	..	..	..
Presidency ..	7,000	..	..	..	1,75,000	..	..	..	1,75,000	..	..	..	1,75,000	..	..	..
Tanjore ..	..	..	..	..	600	200	..	..	600	200	..	..	600	..	..	..
Trichinopoly ..	200	..	..	..	5,000	..	..	..	5,000	..	..	..	5,000	..	..	..
Negapatam ..	..	..	..	..	640	..	..	..	640	..	..	..	640	..	..	..
Madura ..	..	..	..	..	180	100	..	..	180	100	..	..	180	100	..	..
Ramnad ..	..	..	..	..	240	..	..	..	240	..	..	..	240	..	..	..
Tinnevelly ..	..	..	..	..	720	300	..	..	720	300	..	..	720	300	100	..
Consulting Architect.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Officers Commanding Divisions and Districts ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Director-General of Post Office ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Director-General of Telegraphs ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Reserve with the Government ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	18,000	800	100	..	3,00,980	5,838	1,692	..	7,937	7,065	698	..	3,10,465	5,060	3,008	..
									7,937	7,065	698	..		5,060	3,008	..

535/89

B.—Statement of requirements on account of Imperial Incomplete Works for 1885-86 and of New Works sanctioned but not yet commenced.

Division.	Item No.	Name of work.	Amount of estimate.	Number and date of sanction.	Past expenditure.	Balance of estimate.	Amount applied for 1886-87		Amount allotted		Item No.	Remarks.
							For incomplete works.	For new works.	For incomplete works.	For new works.		
1	2	3	4	5	6	7	8	9	10	11	12	13
		IMPERIAL.	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
		Civil Works.										
		Minor Works										
Kistna Western.	1	Post office at Duggirala ..	900	G.O., No. 1918 W. of 9th July 1883.	143	757	757	..	757	..	1	From minor works grant.
Nellore ..	2	Quarters for a postmaster at Gúdúr.	1,260	G.O., No. 665 W. of 12th March 1886.	28	1,232	1,232	..	1,232	..	2	Do. do.
Tanjore ..	3	Extending post office at Kumbakónam for the accommodation of telegraph office.	..	....	..	..	..	1,000	..	..	3	Estimate is awaited.
Madura ..	4	Constructing a sixth-class post office at Batlagundu.	1,340	G.O., No. 665 W. of 12th March 1886.	144	1,196	1,195	..	1,195	..	4	From minor works grant.
Ramnad ..	5	Additions to post office building, Ramnad.	780	Do. do. ..	..	780	..	780	..	..	5	Application for funds should be made to the Director-General.
		Total ..	..		..	..	3,184	1,780	3,184	..		
		Major Works.										
Godávari Eastern	1	Constructing quarters for telegraph signallers at Cocanada.	34,135	G.O., No. 2099 W. of 25th Aug. 1884.	32,311	1,824	1,824	..	1,824	..	1	From minor works grant.
Do. ..	2	Improvements to the telegraph office at Cocanada.	4,000	G.O., No. 1084 W. of 8th May 1885.	2,889	1,111	1,111	..	1,111	..	2	Do. do.
West Coast ..	3	Constructing a post office at Kalpathi.	2,910	G.O., No. 523 W. of 16th Feb. 1883.	..	2,910	..	2,910	..	..	3	No funds available.
Architect ..	4	Constructing a telegraph office at Madras.	3,19,969	G.O., No. 2789 W. of 21st Nov. 1885.	3,17,602	2,367	2,367	..	2,367	..	4	From minor works grant.
Do. ..	5	Constructing a post office at Madras.	3,72,125	Do. do. ..	3,63,248	8,877	8,877	..	..	..	5	Rs. 9,000 were provided in G.O. No. 931 W., dated 5th April 1886.
		Total ..	..		..	..	14,179	2,910	5,302	..		
		Military.										
		Minor Works.										
Rushikulya ..	1	School-room for a regiment of Madras Infantry at Berhampore.	1,390	G.O., No. 3536 W. of 16th Dec. 1883.	..	1,390	..	1,390	..	1,390	1	From minor works grant.
Vizagapatam ..	2	Additions to regimental hospital of the 16th Madras Native Infantry at Vizianagrum.	515	G.O., No. 179 W. of 21st Jan. 1884.	..	515	..	515	..	..	2	No funds available.
Do. ..	3	Improvements to the regimental hospital of the 16th Madras Native Infantry at Vizianagrum.	545	G.O., No. 1746 W. of 18th July 1884.	..	545	..	545	..	..	3	Do. do.
Do. ..	4	Constructing a magazine for the 16th Madras Native Infantry at Vizianagrum.	1,530	G.O., No. 278 W. of 5th Feb. 1885.	..	1,530	..	1,530	..	..	4	Do. do.
Bellary ..	5	Compound wall for the quarters of the Army Hospital corps at Bellary.	1,346	G.O., No. 790 W. of 31st Mar. 1885.	..	1,346	..	1,346	..	..	5	Do. do.
Do. ..	6	Compound wall with 2 gates to enclose the female hospital attached to the station hospital at Bellary.	1,300	G.O., No. 3662 W. of 20th Dec. 1883.	..	1,300	..	1,300	..	..	6	Do. do.
Do. ..	7	Compound wall for the medical subordinates' quarters at the station hospital at Bellary.	535	G.O., No. 611 W. of 6th March 1884.	..	535	..	535	..	..	7	Do. do.
Do. ..	8	Enlarging a well in the cantonment at Bellary.	854	G.O., No. 2949 W. of 9th Dec. 1885.	..	854	..	854	..	..	8	Do. do.
Do. ..	9	Dismantling and re-roofing with Mangalore tiles the coffee shop of the Royal Artillery at Bellary.	1,063	G.O., No. 167 W. of 20th Jan. 1886.	..	1,063	..	1,063	..	1,063	9	From minor works grant.
Nilgiri ..	10	Laying a pipe from the drinking-water cistern to the station hospital at Wellington.	2,226	G.O., No. 893 W. of 2nd April 1886.	..	2,226	..	2,226	..	..	10	No funds available.
Do. ..	11	Improving and altering the hospital nursery dormitories of male and female branches, Lawrence Asylum, Ootacamund.	1,700	G.O., No. 2370 W. of 25th Sept. 1884.	134	1,566	1,566	..	1,566	..	11	From minor works grant.
Do. ..	12	Constructing five bath-rooms to Paymaster Serjeant's quarters at Wellington.	895	G.O., No. 2337 W. of 21st Aug. 1883.	330	565	565	..	565	..	12	Do. do. do.
West Coast ..	13	Fixing iron dampers to the ovens of the Government bakery at Cannanore.	..	....	92	658	658	..	658	..	13	Do. do. do.
Do. ..	14	Converting the beer godown at Malapuram into a gymnasium shed.	790	G.O., No. 348 W. of 18th Feb. 1885.	..	790	..	710	..	..	14	No funds available.
Do. ..	15	Constructing a platform and pump for a well at the Malapuram barracks.	1,110	G.O., No. 1034 W. of 2nd May 1885.	..	1,110	..	1,110	..	..	15	Do. do.
Do. ..	16	Forming a soldiers' garden at Malapuram.	220	Superintending Engineer's Register No. 9 of 1885-86.	..	220	..	220	..	..	16	Do. do.
Do. ..	17	Converting into a cook-room the godowns attached to the married quarters at the West Hill barracks, Calicut.	40	Do. No. 29 of 1885-86.	..	40	..	40	..	..	17	Do. do.
Do. ..	18	Deepening a well in the cholera camping ground at Malapuram.	410	G.O., No. 1403 W. of 16th June 1885.	..	410	..	410	..	..	18	Do. do.
Do. ..	19	Constructing a slaughter-house and hanging shed at the West Hill barracks, Calicut.	1,954	G. O., No. 2548 W. of 2nd Nov. 1885.	..	1,954	..	1,954	..	..	19	Do. do.
Do. ..	20	Converting into a bakery the cook-room at the West Hill barracks, Calicut.	1,010	G.O., No. 2740 W. of 16th Nov. 1885.	..	1,010	..	1,010	..	..	20	Do. do.
Do. ..	21	Improving the well below the married quarters at the West Hill barracks, Calicut.	150	Superintending Engineer's Register No. 60 of 1885-86.	..	150	..	150	..	..	21	Do. do.

B.—Statement of requirements on account of Imperial Incomplete Works for 1885-86, &c.—*contd.*

Division.	Item No.	Name of work.	Amount of estimate.	Number and date of sanction.	Past expenditure.	Balance of estimate.	Amount applied for 1886-87		Amount allotted		Item No.	Remarks.
							For incomplete works.	For new works.	For incomplete works.	For new works.		
1	2	3	4	5	6	7	8	9	10	11	12	13
		Minor Works—cont.										
West Coast ..	22	Building an urinary for the station hospital at Cannanore.	Rs. 68	Superintending Engineer's Register No. 25 of 1883-84.	Rs. ..	Rs. 68	Rs. ..	Rs. 68	Rs. ..	Rs. ..	22	No funds available.
Do. ..	23	Sinking a well in the compound of the station hospital at Cannanore.	700	G.O., No. 1778 W. of 21st July 1884.	..	700	..	700	..	..	23	Do. do.
Do. ..	24	Building an urinary for the plunge bath of the Royal Artillery barracks at Cannanore.	30	Superintending Engineer's Register No. 24 of 1883-84.	..	30	..	30	..	..	24	Do. do.
Do. ..	25	Alterations to the floor of the ovens of the Government bakery at Cannanore.	440	Superintending Engineer's Register No. 22 of 1884-85.	..	440	..	440	..	..	25	Do. do.
Do. ..	26	Constructing laterite drains to the Government bakery at Cannanore.	200	Superintending Engineer's Register No. 33 of 1884-85.	..	200	..	200	..	..	26	Do. do.
Do. ..	27	Providing a compound wall and wooden ceiling for the European Infantry cells at Cannanore	756	G.O., No. 345 W. of 8th February 1886.	..	756	..	756	..	..	27	Do. do.
Do. ..	28	Constructing a permanent verandah for the Quartermaster stores Native Infantry Regiment at Mangalore.	630	G.O., No. 1648 W. of 1st July 1884.	..	630	..	630	..	..	28	Do. do.
Do. ..	29	Substituting asphalte for chunam in the flooring of the wards and surgery of the hospital attached to the Native Infantry Regiment at Mangalore.	695	G.O., No. 1647 W. of 1st July 1884.	..	695	..	695	..	..	29	Do. do.
Do. ..	30	Flooring with tar composite the Native Infantry place-of-arms at Mangalore.	653	G.O., No. 285 W. of 6th February 1885.	..	653	..	653	..	..	30	Do. do.
Do. ..	31	Deepening well on cholera hill at Malapuram.	..	....	..	..	..	605	..	..	31	Do. do. Estimate is awaited.
Do. ..	32	Do. do.	..	....	..	..	..	610	..	..	32	Do. do. do.
Do. ..	33	Constructing a compound wall and supplying furniture to the church at Malapuram.	..	....	..	..	..	1,870	..	..	33	Do. do. do.
Do. ..	34	Converting the five family quarters of No. 2 block at the West Hill barracks, Calicut, into a Commissariat Staff Serjeant's quarters and store rooms.	650	G.O., No. 841 W. of 6th April 1885.	..	650	..	650	..	..	34	No funds available.
Coimbatore ..	35	Improvements to the rest house at Pôdanûr.	1,190	G.O., No. 1457 W. of 9th June 1886.	73	1,117	777	..	777	..	35	From minor works grant.
Do. ..	36	Constructing two cisterns to hold water for fire engines at the Remount Depôt, Matagiri.	1,330	G.O., No. 961 W. of 23rd April 1885.	200	1,130	1,130	..	1,130	..	36	Do. do.
North Arcot ..	37	Supplying materials for the sanitary improvements to the courtyards of sepoy lines at Vellore.	2,110	G.O., No. 146 W. of 18th January 1886.	503	1,607	1,607	..	1,607	..	37	Do. do.
		Total ..	..		..	..	6,303	24,395	6,303	2,452		
		Major Works.										
Vizagapatam ..	1	Constructing a store shed for the 16th Regiment, Madras Native Infantry, at Vizianagrum.	3,480	G.O., No. 2628 W. of 27th Oct. 1884.	..	3,480	..	3,480	..	..	1	No funds available.
Nilgiri ..	2	Bakery at Wellington	32,000	G.O., No. 1838 W. of 29th July 1884.	24,074	7,926	6,100	..	6,100	..	2	From minor works grant.
Do. ..	3	Alterations to the school hospital attached to the Lawrence Asylum, Ootacamund.	31,538	G.O., No. 3281 W. of 12th Dec. 1882.	..	31,538	..	31,538	..	..	3	No funds available.
Do. ..	4	Adding two lying-in wards to the station hospital at Wellington.	3,036	G.O., No. 1573 W. of 6th July 1885.	..	3,036	..	3,036	..	..	4	The amount applied for has been provided in the Military budget for 1886-87, item No. 2, class B works.
West Coast ..	5	Improving and fixing lightning conductors to the Madras Infantry magazine at Quilon.	3,880	G.O., No. 552 W. of 3rd March 1886.	..	3,880	..	3,880	..	3,880	5	From minor works grant.
Do. ..	6	Providing shelves and racks for the storage of ammunition in the double magazine and treasure room in the Cannanore Fort.	3,590	G.O., No. 2368 W. of 24th Sept. 1884, and No. 1263 W. of 19th May 1886.	2,419	1,171	1,170	..	1,170	..	6	Do. do.
Presidency ..	7	Alterations to the Coast batteries at Madras.	14,265	G.O., No. 2126 W. of 11th Sept. 1885.	6,219	8,046	2,021	..	2,021	..	7	From minor works grant, in addition to Rs. 6,025 provided in the budget.
		Total ..	..		..	..	9,291	41,934	9,291	3,880		

535
96

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following papers:—

From the Superintending Engineer,	I Circle,	dated	3rd June 1886,	No. 490 G.D.
" " "	II "	"	19th May "	(one statement)
" " "	III "	"	8th " "	(three statements).
" " "	IV "	"	11th " "	No. 142 E.W.
" " "	V "	"	11th " "	" 571.
" " "	V "	"	11th " "	" 572.
" " "	V "	"	11th " "	" 573.
" " "	V "	"	11th " "	" 574.
" " "	V "	"	7th June "	" 952.
" " "	VI "	"	7th " "	" 964.
" " "	"	"	12th May "	" 227 M.D.
" Consulting Architect to Government		"	12th " "	" 196.

Order—dated 23rd June 1886, No. 1595 W., Public Works.

With the papers read above, the Superintending Engineers and the Consulting Architect submit statements of the estimated requirements, under Imperial "Military" and "Civil" Works, in lump sums, against each division, for minor works, and repairs, and, in detail, for incomplete works of 1885-86, and for new works proposed to be undertaken in the current official year.

2. Under Imperial "Military," the demands against Original Works amount to—

	Rs.
For minor works, lump sums	18,900
" incomplete minor works	6,303
" " major "	9,291
" new minor works	24,395
" " major "	41,934
	1,00,823

and the budget grant for minor works amounts to only Rs. 27,000. The Superintending Engineer, V Circle, having surrendered a sum of Rs. 2,864 from the current year's grant for armament in Fort St. George, it will be resumed, in anticipation of sanction by the Government of India, and added to the grant for minor works, which will then be Rs. 29,864. Of that amount, Rs. 15,594 for incomplete works, and Rs. 6,333 for three new works* considered emergent, have been allotted; and the balance, Rs. 7,937, has been placed, in lump sums, at the disposal of Officers Commanding Divisions and Districts, to whom Superintending Engineers will apply for funds required to meet outlay on such works as are indispensably necessary to be carried out during the year.

* *Vide* G.Os., No. 1320 W., dated 26th May 1886, No. 1355 W., dated 25th May 1886, and No. 1148 W., dated 7th May 1886.

3. The demands under Repairs amount to Rs. 3,09,980, against the budget grant of Rs. 3,10,465. The necessary allotment has been made, as will be found in statement A.

The allotment to the Presidency division includes provision for re-roofing the mess-house in Fort St. George, and for the Commissariat granary buildings on the beach at Madras.

4. A sum of Rs. 844 was applied for by the Superintending Engineer, V Circle, for improving the roof of family quarters, Poonamallee; but as the sanction to the work was ordered to be cancelled (*vide* G.O., No. 585 W., dated 12th March 1885) no appropriation is necessary.

5. Under Imperial "Civil" Works, the demands against Original Works, Postal, amount to—

	RS.
For minor works, lump sum	800
„ incomplete minor works	3,184
„ „ major „	8,877
„ new minor works	780
„ „ major „	2,910
Total ...	16,551

of which, only Rs. 3,184 have been allotted for incomplete minor works. The balance of the budget grant for minor works, after the above allotment, is Rs. 6,816, to which must be added a sum of Rs. 249 transferred from the grant for a new post office at Anantapur. The total, Rs. 7,065, is placed at the disposal of the Director-General of Post Offices, who will allot the requisite funds for works to be undertaken during the year.

6. The demands against Original Works, Telegraph, amount to—

	RS.
For minor works, lump sum	100
„ incomplete major works	5,302
„ new minor works	1,000
Total ...	6,402

7. Funds have been allotted for all the incomplete works to the extent of Rs. 5,302; and the balance, Rs. 698, of the budget provision for minor works, has been placed at the disposal of the Director-General of Telegraphs, as shown in statement A.

8. The allotment under Repairs (Postal and Telegraph) will be found in statement A. The demands of Superintending Engineers under Postal amount to Rs. 5,838, but have been reduced to Rs. 5,000 to bring the sum within the provision in the budget.

9. Ordered that copies of these proceedings be forwarded to the Government of India in the Military and Public Works departments.

(Here enter No. 1596 W., dated 23rd June 1886.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers,
To the Consulting Architect to Government.
„ Examiner, Public Works Accounts.
„ Director-General of Post Offices.
„ Director-General of Telegraphs.
„ Military Department.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated June, 23rd.

Encl.

Recd.

G.O., 23rd June 1886, No. 1595 W.

JUNE.

Imperial Military and Civil Works

Orders on statements of estimated requirements in 1886-87 under — for incomplete and minor works and repairs.

535/88

No. 5558

COMMISSARY-GENERAL'S OFFICE,
Madras, 20 October 1886.

FROM
Col: J. C. Gunning
In charge THE COMMISSARY GENERAL, *'s office*

To

THE SECRETARY TO GOVERNMENT,

MILITARY DEPARTMENT,

FORT SAINT GEORGE.

SIR,

I have the honor to report that the new Government Bakery at Wellington was brought into use on the 1st of this month for the Departmental supply of bread to the Troops at the Convalescent Depôt.

2. The Executive Commissariat Officer, in reporting on his first operations brought to my notice that the Bakery buildings were defective in several respects. He stated that it is damp, cold, and insecure; that the corrugated iron roof leaks; that the Chunam floor requires to be re-layed with stone flags or asphalt; that the drainage is inadequate; and that the windows ought to be fitted with wooden shutters, the glass panes affording insufficient protection against thieves.

3. I addressed the Executive Engineer Nilgiri Division on the subject and he

he informs me that an estimate
for the required alterations is under
preparation and that the work
will be put in hand as soon as
sanction is received.

He adds however that he
cannot commence work without
previous sanction; but as the work
is urgent he suggests my making
special application to Government
on the subject.

I request therefore that the
D. G. may be urged to take
very early action in the matter.

I have the honor to be
Sir
Your most obdt. Servant

[illegible] Coll
In Charge Commissary General's Office

P. W. Dept.

To be returned with reply.

22 OCT 86

SE4th
934.4n
24/10/86

P.W.C. No 8247
Nilg.-86-dep.
2 W 7056

From Col: J. C. Gunning
Actg. Chief of The Commissary-General's Officer
Madras,

To
The Secretary to Government,
Military Department.
Fort St George

Dated 20. October 1886.
Recd. 21
22-10-86

No. 5558.

Enclosures.

1522 W 17.6.86

Requesting Government to urge the D. P. W. to pay early attention in repairing the defects of the Government Bakery at Wellington.

Referred
M

N. 6609. Transferred to the Public Works Dept. for favor of early orders.

(Sgd) Kenney Herbert Lt Col.
Secretary to Govt.
21st October 1886

No. 3715C of 23d October 1886.

Referred to the Supdg. Engineer IV Circle for immediate report and for submission of an estimate for the requisite alterations.

/

Actg. Colonel Rh
Secy. to Govt. P. W. Dept.

535

Supdg. Engineer's Office, 4th Circle
Camp Barur, 30th October 1886.

No. 381C
Dw.

From
The Superintending Engineer
Fourth Circle.

To
The Chief Engineer,
P. W. Department.

Sir,

Enclosure 1 (Endorsement (returned)

With reference to your Endorsement No. 3715C of 23d Instant on Endorsement No. 6609 of 21st October 1886 from the Military Department, I have the honour to report that the only portion of this complaint previously brought to my notice by the Commissariat Department was the "inadequate drainage".

2. The Commissary General wrote me:- "The foundations of the building seemed very damp; a high bank of earth

earth surrounds the building on 2 sides leaving only a space of 2 feet at bottom, between it and the Bakery. A spring of water oozes from the corner and keeps the foundation continually wet."

3. On this the Executive Engineer wrote me xxx, in his letter No 1230 of, 20th July — "The two small items you name; i.e. the small drain round the building, and sloping away the bank, will cost very little indeed; and are amply covered in the lump sum allowed for the road. These items were foreseen, and provided for, and very thoroughly considered. I visited the Bakery with Mr. Lord on the 16th Instant and gave the necessary orders regarding the completion of the work."

4. I have called, on the Executive Engineer to report at once why the improvement of the drainage promised, at end of July has not yet

yet been effected; and the probable approximate cost of correcting the defects now brought to notice regard to the roof, floor, and windows, in order that your Order on may be obtained for putting the work in hand forthwith, in anticipation of the submission of a detailed estimate.

I have the honor to be,
Sir,
Your most obedt servant

J. Beatty Col: R.E.,
Supg. Engineer, 4th Circle.

3715 E. 23-10-86
1528 W. 17-6-86

P.W.D. 85/1A

From
The Supg. Engineer,
Fourth circle.

To
The Chief Engineer,
P.W. Department.

Dated 31st October 1886.
Despd: 2nd

No. 3810
P.W.
Encls: 1

Wellington Bakery:-

Reporting that the portion of the complaint previously brought to notice by the Commissariat Department in regard to the — was "inadequate drainage" —

with the

Submitted
In the July
with advertisement from the S. dept
No 6609 dated 21 8
Octr 1886.

2. The further report promised in para 4 of the Supty Engineer's letter is awaited

4/11/86

Dy
4/11/86

To The Supty Dept
The Executive Engineer
Ootacamund

Despd 5-11-86

No. 2323 86

P. W. D.

NILGIRI DIVISION OFFICE,
STATION Ootacamund
1st November 1886.

N.B.—Please quote the number and date of this letter in future communication on the subject.

Enclosures.

FROM

THE EXECUTIVE ENGINEER,
NILGIRI DIVISION,
OOTACAMUND,

TO

THE SUPERINTENDING ENGINEER,
FOURTH CIRCLE,
COIMBATORE.

SIR,

In reply to your No. 3715 of 27th Octr/86 I have the honor to report that the improvements to the Bakery Building lately completed at Wellington required by the Commissariat Department are as follows:-

(1) Lining the Corrugated iron roof to increase the warmth and dryness of the building;

(2). Putting up boarded ceilings in the Ovens and Kneading rooms with the same object;

(3) Floor of Kneading room at present cemented with chunam to be laid with stone flags. because heavy bags of wood are being constantly pulled about

the

in it and it is already in a dilapidated state, impossible to keep clean;

(4). Sinking a well in the vicinity of the Bakery, all water used for baking having now to be brought from the Barracks;.

(5) Improvements to the outside drains;

(6) Minor improvements to windows gate Etc...

2. I have had an Estimate prepared for the above, and it amounts with the Exception of the well, not included in it, to Rs 3,990.

3. There will be a saving of Rs 1900/ on the revised Estimate for the Bakery proper, Latrine and Storeshed. I from this I propose at once executing items (2) and (3) of the above improvements, which I take to be the most urgent. Their Estimated cost is Rs 1,750/ and I request your early Sanction to them.

4. I believe when the boarded Ceilings are up, tiling will be found unnecessary,

and that item of the Estimate 35/53 amounting to Rs 1133/ may be neglected.

5. Item (5) has been already completed and for Item (6) there is no immediate hurry.

6- With regard to Item (4) there is a well by the road side within 200 yards of the Bakery, but it is used, and doubtless contaminated, by the inhabitants of Wellington Bazaar. I propose sinking a second well adjacent to the Existing one. and providing it with a cover & padlock. @ a total cost of Rs 100/.

7. It is not creditable that a building so lately completed should be found so defective, but I submit that this Department is not to blame on that account. The revised Estimate was examined and approved by 3 successive Officers of the Commissariat Department & had therefore have provided a suitable building in all respects.

8. I will send detailed Estimates very shortly. all I want now is immediate sanction to proceed with items (2) and (3).

I have the honor to be
Sir
Your most obed. Servant.

Signature Enemies

Wde T/11 8.D.L

the

From

The Executive Engineer,

Nilgiri Division,

SUPT. ENGINEER'S OFFICE
No. 9201
3 NOV. 86
P. W. D.
FOURTH CIRCLE

To

The Superintending Engineer,

Fourth Circle,

Dated 1
Despatched } 2nd November 1886.
Received

No. 2323

Enclosures. 1

Subject.

Wellington Bakery; additio
Work required to. Re
asto permission to go
the certain —

Supdg. Engineer's Office, 4th Circle.
Camp Ooty, 4th November 1886.

No. 283C
Encl.

5/35
99

From

The Superintending Engineer,
Fourth circle.

6/11/86

To

The Chief Engineer,
P. W. Department.

Sir,

Enclosure 1 — In continuation of my letter
10 letters No. No. 381C/W. of 31st ultimo, I have the honor
2323 of 1st Nov 86. from E.E. Nilgiris to forward, a report from the Executive
Engineer, Nilgiris, on the defects found
to exist in the New Bakery at Wellington.

2. As pointed out by Mr. DeWinton, the Commissariat Department is solely responsible for the defects in the design, which was prepared by the Executive Engineer in strict accordance with the wishes of their Officers.

3. In anticipation of your approval, I have authorised the Executive Engineer by telegram to proceed with

the

the planked ceilings, and stone flooring which, are the extra works most urgently required.

4. It will be observed, from para 6 of the enclosed letter, that the defective drainage outside the building has been already attended to.

5. The necessity for a well, I have only now heard of for the first time. It, and the improvements to doors and windows, will be included in a supplemental estimate to be submitted very shortly.

I have the honor to be,
Sir,
Your most Obedt. servant.

L. Beatty. Col: R.E.,
Dep.g. Engineer, 4th Circle.

No 2212 W d/ 10.8.83
" 2663 W d/ 22.9.83
" 838 W d/ 8.2.84
" 878 W d/ 21.3.84
" 1839 W d/ 29.7.84
" 2440 W d/ 2.10.84
" 2589 W d/ 22.10.84
" 2668 W d/ 29.10.84
" 3147 W d/ 20.12.84
" 2122 C d/ 20.12.84
" 51 W d/ 8.1.85
" 978 W d/ 14.4.85
" 2296 W d/ 3.10.85
" 2603 W d/ 5.11.85
" 2646 W d/ 7.11.85
" 152 W d/ 18.1.86
" 596 W d/ 5.3.86.
" 679 W d/ 13.3.86.
" 828 W d/ 26.3.86.
349 W d/ 13.2.85.
38 D d/ 20.4.86.
1528 W d/ 17.6.86.
1715 C d/ 23.10.86.

P.W.C. No 8649

From
The Supt Engineer,
Fourth circle.

To
The Chief Engineer,
P.W. Departt.

Dated 4th November 1886.

No 2830
EW.

Encl: 1

Wellington Bakery.

States that he has authorised the Executive Engineer, Coimbatore by telegram to proceed with the plastered ceilings and stone flooring which are the extra works most urgently required to the

With order

Communicated to the Military Department, in continuation of G.O. No 2915 W dated 5th November 1886.

2. The action of the Supt Engineer is approved.

3. A supplemental estimate, providing for the additional works required by the Commissariat Departt, should be submitted as early as practicable.

√ — 13/11/86 — 6/11/86

B — 11/11/86

S.E. IV Circle √

Military Deptt — 11-11-86

Dated 13th 11.86

To, The Military Secretary

Public Works Department.

Current No. 998 535/96
Letter No. 776
Dated the 7th February 1887
From the Secretary to Govt. Military Department

Note of Remarks.

1. In obedience to G.O. No 2992 W of the 13th November 1886 the accompanying estimate is submitted. It is supplemental to the revised estimate Rs 31450, for constructing a Bakery at Wellington sanctioned in G.O. No 1528 W of the 17th June 1886. This supplemental estimate amounts to Rs 4400.

2. The supplemental estimate provides for certain omissions from the sanctioned revised estimate for the Wellington Bakery, and S.E. IV writes "the Commissariat Department is solely responsible for the defects in the design, which was prepared by the Executive Engineer in strict accordance with the wishes of their Officers."

3. The following it is stated

are the main defects of the bakery as it stands at present:- the building is cold and damp; the flooring of the kneading room cannot be kept clean; the windows are insecure; and no well has been provided. To remedy these defects it is proposed to cover with Mangalore tiles the existing corrugated iron roofing of the office, kneading, oven, bogie and sifters rooms; to provide the kneading room with a ceiling of teak planks and a flooring of stone slabs; to provide the oven room with a ceiling of corrugated iron; to provide for thoroughly draining the building; to strengthen the windows; and to have a well sunk near the building.

4. It is considered that when these proposed additional works have been completed the bakery will fully and satisfactorily answer in all

The Mysore Commissariat

all respects the purposes it is intended to serve, and, subject to approval, in the circumstances explained the estimate now submitted may be accepted.

5. In the absence of any plan, and so far as can be judged from the documents submitted, the scantlings of the new timbers appear correct. Some of the rates are certainly high (the stone flooring is set at Rs. 80 per square) but may, perhaps, in the exceptional circumstances of the case, be allowed to pass.

6. The supplemental estimate, if sanctioned, will raise the total estimated cost of the Wellington Bakery to Rs. 35,850.

7. The supplemental estimate is countersigned by the Commissary General and

and is approved in the Military Department.

The Estimate may be sanctioned

WCS

12.2.87

B/17
11/2/87

5354

Supg. Engineers Office, 4th circle
Camp Cochin 29th January 187.

No. 37
E.W.

From

Colonel J. Beatty R.E.,
Superintending Engineer,
Fourth Circle.

To

The Chief Engineer,
P. W. Department.

Enclosure 1

1 Copy of Exc: Engr's letter No: 2991 dy 17th January 1887.

Sir,

With reference to para 3 of G.O. No. 2992 W of 13th Instant, I have the honor to inform you that a supplemental estimate amounting to Rs: 4,400 for the additional works required by the Commissariat Department at the Wellington Bakery was forwarded on 21st Instant to the Commissary General for transmission to Government for sanction.

The Executive Engineer Nilgiri Division informs me that he anticipates

× vide copy of letter No: 2691 of 7th Jany: 187

anticipates, a saving of about Rs: 2,000 on the estimate of Rs: 31,450 sanctioned for the Bakery in G.O. No. 1528 W of 17th June 1886, so that the cost of the extra works now proposed to the Bakery may be met in part from those savings, and a grant of the balance, Rs: 2,400 only will be needed. Application will be made for an additional grant, if necessary, after a further reference to the Executive Engineer who has not yet reported what he expects his expenditure will be.

I have the honor to be,
Sir,
Your most Obedt. servant.

L. Beatty - Colonel, RE.,
Supg. Engineer, 4th Circle.

P.W.C. No. 768

From

Colonel J. Beatty R.E.,
Supg Engineer 4th Circle

Dated 29th } Jany: 1887.
Recd 2-2 }

No 37
E.W.

Enc: 1

Wellington Bakery:-

Informs that, a supplemental estimate of Rs: 4400 for the additional works required by the Commissariat Department for the - has been forwarded to the Commissary General for transmission to Government for sanction and that a saving of Rs: 2000 is available and requiring an allotment of Rs: 2460.

No. 2991 Nilgiri Division 535 Office, 4th
Ootacamund. 17th January 1887

From

The Executive Engineer
Nilgiri Division

To

The Superintending Engr.
IV Circle.

Sir,

In reply to your No. 788 4.3 of 18th December /86, I have the honor to forward a comparative statement showing the total amount of savings anticipated in the Wellington Bakery and Latrine. These amount, as you perceive, to Rs: 2,066 or say Rs: 2000.

2. The principal savings are in "Brick in mortar" due to the walls being built throughout 1-½" instead of 1-2" thick; in "rough stone in mortar" due to rough stone laid dry being substituted in revetments and Culverts; and in "Petty Superviseion" which

needs no explanation.

3 × × ×

I have &c

[Sgd] W. B. Swinton

Executive Engineer.

[True Copy] &c

F. Beatty. Col. R.E

Supg Engineer

535 W.

Bd/Co 3567/27-1-87

Dr. 7980.

Forwarded to the Exc: Commt: Of. Wellington for report whether the Estimate embraces all the alterations and improvements required by the Govt: Bakery

Colonel
for C E
25th Jany/87 Ld

From
Colonel J. Beatty R.E.
Supg: Engineer
4th Circle.

Dr. 9963
25-1-87

Dated 21st
Recd. 24th } January 1887

No. 22
M.
Enclosures 3

Government Bakery at Wellington.

Forwards for transmission to Government for sanction a supplemental Estimate of Rs 4400 for the completion of the

Dr 7962/87

535/87

Local No. 155a.

COMMISSARY GENERAL'S OFFICE,

No. 8287. Madras, 4th Feby 1887.

FROM Colonel H. P. Hawkes,
~~THE~~ COMMISSARY GENERAL,

To,

THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT,
FORT SAINT GEORGE.

SIR,

Adverting to P. G. No 7171 dated 16th November 1886, I have the honor to forward for submission to Government a Supplemental Estimate received from the Superintending Engineer IV Circle amounting to Rupees 4400/- for the Completion of the Government

Bakery

Bakery at Wellington together with a report and duplicate abstract of the Estimate.

2. This Estimate provides for remedying all the defects pointed out in my letter No. 5558 dated 20th October 1886.

3. The total cost, including these extra works, is now estimated at Rs. 35850/—.

I have the honor to be,
Sir,
Your most Obedient Servant,

Colonel
Commissary General

535
1004

From

The Commissary General,

Madras,

To

The Secretary to Government,

Military Department.

Dated 188 .

Recd.

No.

Enclosures.

P.S. 5th Nov. 1886 Nos: 207-208R
P.S. 16th Nov. 1886 Nos: 461-462R

2992 nr 12.11.86. 679 w 1338
3715 C 23.10.86, 596 w 5.3.87
2918 w 5.11.86. 152 w 18.1.87.
1595 w 23.6.86. 264 w 7.1.87
1528 w 17.6.86. 2603 w 5.1.87
229 w 31.1.87
388 D 20.4.86.
349 w 6.2.85 978 w 26.4.85
82 D w 26.8.86. 57 w 21.1.85

C. P. 766. Approved and transferred to the Public Works Department for disposal, with reference to P.S. No. 2992 W. dated 13th November 1886

(Byrne)

A Kearney Herbert Lieut Col
Secretary to Government

Fort St George
7th February 1887

July-87-Dept
No. 766

From
Colonel H. L. Hawkes
Commissary General
Madras

To
The Secretary to Government
Military Department
Fort St George.

Dated 4th February 1887
Rec'd 5 " "
No. 8287

Enclosures 6

Forwards for sanction to Govt a Suppl. Estimate from Supt Engineer IV Circle for Rs. 11400 of Govt Bakery at Wellington, & a report & duplicate abstract of the Estimate.

2122 C 20.12.84
3147 w 20.12.84
2660 w 29.10.84
2589 w 22.10.84
2440-1 w 2.10.84
1839 w 29.7.84
808 w 31.3.84
338 w 8.2.84
2634 22.9.83
2212 w 10.8.83

J

B/7
Mily works.

PUBLIC WORKS DEPARTMENT.

W. 535 W
10

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 24 Feby: 1887.

READ the following

from the S.E. IV Circle No 37 dw. d 29.1.87.
Letter from the Commissary General H.E. No. 8287 d 4th Feby 1887.
Endt thereon in the Military Dept. No. 766 d 7th Feby 1887.

The estimate amounting to Rs 11400 for completing the Govt. bakery at Wellington, is sanctioned as supplemental to the estimate of Rs 31450 sanctioned in G.O. No. 1528 W d 17th June 1886.

2 The sanction has been registered as Imperial No 36 W of 1886-87, and classified as Military. Original Works.

DC/WD 2/3/87

To The Supt Engineer IV Circle with 3 enclosures
Exam P.W. Accts with the dup. abst. as to
Military Dept

WCWS 15.2.87

Cr 17.2.87

JPH 22/2/87

135
10b

998.

Estt. of 1887 [illegible]

PUBLIC WORKS.

25/2/87

Recd. Encl.

G.O. 24 Feb 87, No. 535

Govt bakery at
Wellington

Estimate of £ 4,40
for Completing
the ——— Sanitorium

70
5